

# 功率半导体整合制造商

IDM (Integrated Device Manufacturer) of  
Power Semiconductor Devices

金属氧化场效应晶体管产品指南  
MOSFET Handbook 2023 v1.0



## ▶ 关于捷捷

### COMPANY PROFILE

江苏捷捷微电子股份有限公司创建于 1995 年,是集芯片研发、芯片制造、封测和销售为一体的江苏省高新技术企业。2017 年 3 月 14 日于深圳创业板上市,股票代码 300623。捷捷微电是国内领先的高品质功率半导体器件 IDM,自 2017 年起便一直位列在中国半导体行业协会年选的「中国半导体功率器件十强企业」。

主导产品为晶闸管(单、双向可控硅)、MOSFETs (SGT、沟槽、平面、超结等工艺)、低结电容放电管等各类保护器件、高压整流二极管、功率型开关晶体管。作为晶闸管龙头企业,捷捷微电 2020 年晶闸管营业收入为国内同行第一、全球第三,而且国产替代进口市占率约 50%。

中/低压 MOSFETs 技术达国际一线大厂水平,其中  $V_{BR(DSS)_{Min}}$  低于 200V 的多系列 JSFET®、JPFET® SGT MOSFET 与业界龙头第五、六代产品的性能不相伯仲。公司已搭建资深车规级团队,涵盖芯片/封装/产品/测试/制造/质量/应用等。高压的 JHFET® SJ MOSFET 在车规及非车规类均有布局,且性能优越。在启东、南通、无锡和上海拥有四大研发中心,大力推进人才建设与技术创新,积极引进海内外人才。江苏启东、南通两大制造基地全力打造「制造优势」和「本土化自主化」。

所有生产设施均先后通过 ISO 9001:2008 和 IATF 16949 质量管理体系、ISO 14001:2004 环境管理体系、ISO 45001 职业健康安全体系、QC 080000 有害物质过程管理体系等认证。制造的产品符合 UL 电气绝缘性要求, RoHS 环保要求、REACH 化学品注册、评估、许可和限制性要求、无卤素等要求。



## ■ 功率半导体器件IDM

- 可控硅** —— 直径4英寸可控硅器件芯片生产线, 主营产品: (0.6 ~ 1.6kV / 0.6 ~ 110A) 双向可控硅, (0.6 ~ 2.2kV / 0.8 ~ 250A) 单向可控硅
- 保护器件** —— 直径4、5英寸防护器件生产线, 主营产品: 快恢复二极管、高压整流二极管、低结电容放电管、高压触发二极管等各类防护器件
- 先进功率器件** —— 击穿电压 100 ~ 700V 多平台 (Planar、Trench、SGT、Super-junction) MOSFET、IGBT、碳化硅 MOSFET、以及符合 IATF 16949 认证的车规级产品
- 四座晶圆厂** —— 4英寸、5英寸、6英寸、8英寸, 工艺节点可达 0.18 $\mu$ m 及以上
- 三条封装产线** —— 二、三极管器件封装和测试生产线, 器件封装形式包括: TO-92、SOT-23/26、SOT-89、DPAK、D2PAK、TO-220A、TO-220B、TO-220C、TO-220F、TO-247 Super、DFN、PowerJE<sup>®</sup>、SMA、SMB、SMC、SOD-123、SOT323/363/523/563/723

以捷捷微电为依托的江苏省工程技术研究中心, 负责公司新产品、新工艺技术开发及改造。在自主研发的同时, 加强与企业及科研院所的合作, 大力开发具有自主知识产权的关键技术, 形成自主的核心技术和专有技术, 加快科技成果产业化步伐。积极布局专利攻防体系, 在功率半导体领域共获得授权专利117项, 其中发明专利19项, 授权实用新型专利97项, 外观专利1项。

公司拥有江苏省高新技术产品19项。过去一年, 就 SGT MOSFET 领域已申请及批准的相关专利超过46项。为实现半导体系列产品技术领先战略提供技术储备和支撑。

19

江苏省高新技术产品

46

SGT MOSFET相关专利

19

发明专利

97

授权实用新型专利

1

外观专利



江苏捷捷微电子股份有限公司（总部）



Thyristors



MOSFETs



WBG Devices



捷捷半导体（南通）



TVS



Diodes



Small Signals



P. Devices



S.S. Relays



捷捷微电（上海）、（无锡）科技有限公司



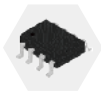
MOSFETs



捷捷微电（深圳）科技有限公司



Opto-Couplers



AC-DC, OpAmp  
Comparators



捷捷微电（南通）科技有限公司



Wafers



江苏捷捷半导体新材料有限公司

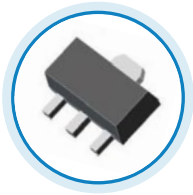


江苏捷捷半导体技术研究院有限公司

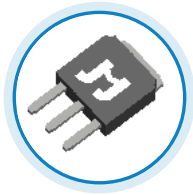


江苏易矽科技有限公司

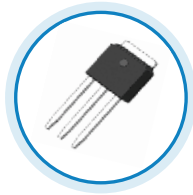
## ▶ 插件封装 THROUGH-HOLE PACKAGES



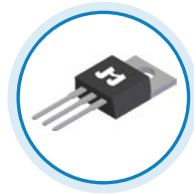
SOT-89-3L



TO-251-3L



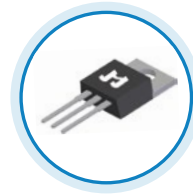
TO-251L-3L



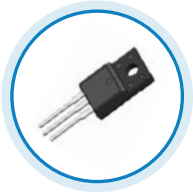
TO-220-3L



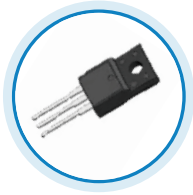
TO-220AS-3L



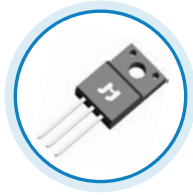
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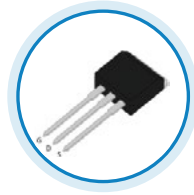
TO-220FA-3L



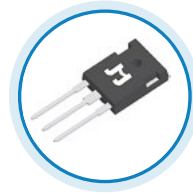
TO-220FP-3L



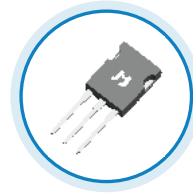
TO-220FP-NL



TO-262-3L



TO-247-3L

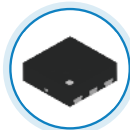


TO-247PS-3L

## ▶ 表贴封装 SURFACE-MOUNT PACKAGES



DFN1006-3L



DFN2020-6L



U-DFN2020-6L



DFN3333-8L



W-DFN3030-8L



DFN5060-8L



DFN8080-4L



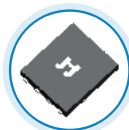
PDFN3x3-8L



PDFN3x3-8L-D



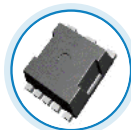
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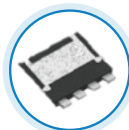
PDFN5x6-8L-D



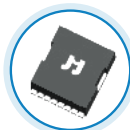
PDFN5x6-8L-D



PowerJE®7x8  
sTOLL-comp.



PowerJE®8x8  
sTOLL-comp.



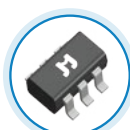
PowerJE®10x12  
TOLL-comp.



SOT-23



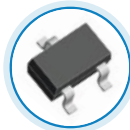
SOT-23-3L



SOT-23-6L



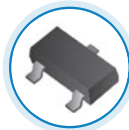
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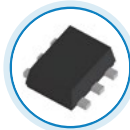
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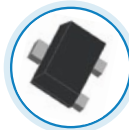
SOT-363-3L



SOT-523-3L



SOT-563-6L



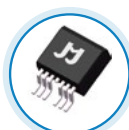
SOT-723-3L



TO-252-3L



TO-263-3L



TO-263-7L



SOP-8



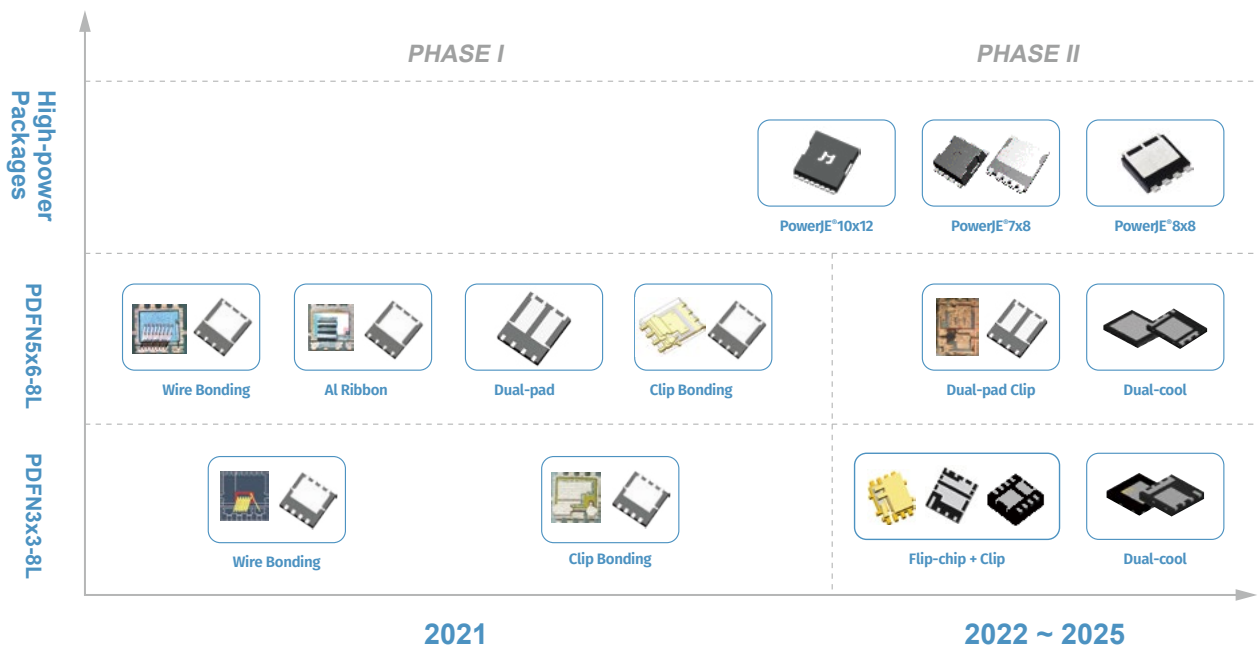
TSSOP-8

# 封装优势 PACKAGING ADVANTAGES

## Advanced Packaging

 <p><b>TO-263-3L</b></p> <table border="1"> <thead> <tr> <th>封装面积</th> <th>高度</th> <th>最大电流</th> </tr> </thead> <tbody> <tr> <td>150mm<sup>2</sup></td> <td>4.4mm</td> <td>195A</td> </tr> </tbody> </table>	封装面积	高度	最大电流	150mm <sup>2</sup>	4.4mm	195A	<p>面积减少20% 高度降低45%</p>  <p><b>PowerJE<sup>®</sup>10x12</b></p> <table border="1"> <thead> <tr> <th>封装面积</th> <th>高度</th> <th>最大电流</th> </tr> </thead> <tbody> <tr> <td>120mm<sup>2</sup></td> <td>2.3mm</td> <td><b>360A</b></td> </tr> </tbody> </table>	封装面积	高度	最大电流	120mm <sup>2</sup>	2.3mm	<b>360A</b>	<p>面积减少58% 高度降低50%</p>  <p><b>PowerJE<sup>®</sup>8x8</b></p> <table border="1"> <thead> <tr> <th>封装面积</th> <th>高度</th> <th>最大电流</th> </tr> </thead> <tbody> <tr> <td>64mm<sup>2</sup></td> <td>1.9mm</td> <td><b>200A</b></td> </tr> </tbody> </table>	封装面积	高度	最大电流	64mm <sup>2</sup>	1.9mm	<b>200A</b>	<p>面积减少63% 高度降低45%</p>  <p><b>PowerJE<sup>®</sup>7x8</b></p> <table border="1"> <thead> <tr> <th>封装面积</th> <th>高度</th> <th>最大电流</th> </tr> </thead> <tbody> <tr> <td>56mm<sup>2</sup></td> <td>2.3mm</td> <td><b>260A</b></td> </tr> </tbody> </table>	封装面积	高度	最大电流	56mm <sup>2</sup>	2.3mm	<b>260A</b>
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## Roadmap for Power & Auto Packages



# ▶ 产品命名规则 Nomenclature of JMT-series N-ch and P-ch Trench MOSFET

1	2	3	4	5	6	7	8	9
JM	T	K	060	N	06	A		<p>If there is a generic number code on the product market, the fourth, fifth and sixth parts shall be directly used in the generic number code for convenience. For example, JM TL2301A, JM TP9926A</p>
							8: Special Suffix	特殊后缀
							Default=Blank	默认空白
							7. Version / Other	
							A= Version A	
							B= Version B	
							L= Low Vth	
							H= High Vth	
							U= Ultra Low or High Vth	
							D= Dual Die	
							K= With ESD	
							T5=SOT-523-3L(Package)	
							T7=SOT-723-3L(Package)	
							6. Vdss - Max (BV DSS / 10)	
							03= 30V VDS	
							10=100V VDS	
							15=150V VDS	
							5. Channel/Type	
							N= N channel / Dual N channel	
							P= P channel / Dual P channel	
							C= Complementary	
							4. Rds(on) Max (mohm) (RDSON X 10)	
							060 = 6 mohm	
							330 = 33 mohm	
							280 = 280 mohm	
							35E = 3500 mohm	
							3. Package Code	
							A	TO-220A-3L
							B	TO-220B-3L
							C	TO-220C-3L/TO-220H-3L
							D	DFN1006-3L
							E	TO-263-3L
							F	TO-220FP-3L
							FP	TO-220FA-3L
							G	PDFN5x6-8L / PDFN5x6-8L-D
							H	TO-251L-3L
							I	TO-251-3L
							J	SOT-23-3L
							K	TO-252-3L
							L	SOT-23(SOT-523-3L/SOT-723-3L)
							LA	SOT-323-3L
							LB	SOT-363-6L
							M	SOT-23-6L
							N	SOT-89-2L / SOT-89-3L
							P	SOP-8
							Q	PDFN3x3-8L / PDFN3x3-8L-D
							R	DFN3x3-8L / DFN3x3-8L-D
							S	TO-247-3L
							T	TSSOP-8
							U	TO-92-3L
							V	DFN2020-6L
							W	TO-262-3L
							Y	SOT-223-2L/SOT-223-3L
							ZA	TO-3P-3L
							SP	CSP
							2. Type	
							T = trench	
							1. Prefix	
							JM	JIEJIE MOSFET

# ▶ 产品命名规则

## Nomenclature of JMT-series N-ch and P-ch Planar MOSFET

1	2	3	4	5	6	7	8
JM	P	K	7	N	65	A	
<p>8: Special Suffix Default=Blank J=JJ wafer</p> <p>7. Version A= Version A B= Version B K=With ESD G1=Lion wafer</p> <p>6. Vdss - Max (BVDS / 10) 65= 650V VDS 100=1000V VDS</p> <p>5. Channel N= N channel P= P channel</p> <p>4. ID - max 7= 7A 13 = 13A</p> <p>3. Package Code  <b>A</b> TO-220A-3L  <b>B</b> TO-220B-3L            C TO-220C-3L/TO-220H-3L            D DFN1006-3L            E TO-263-3L            F TO-220FP-3L            FP TO-220FA-3L            G PDFN5x6-8L / PDFN5x6-8L-D            H TO-251L-3L            I TO-251-3L            J SOT-23-3L            K TO-252-3L  <b>L</b> SOT-23(SOT-523-3L/SOT-723-3L)            LA SOT-323-3L            LB SOT-363-6L            M SOT-23-6L            N SOT-89-2L / SOT-89-3L            P SOP-8            Q PDFN3x3-8L / PDFN3x3-8L-D            R DFN3x3-8L / DFN3x3-8L-D            S TO-247-3L            T TSSOP-8  <b>U</b> TO-92-3L            V DFN2020-6L            W TO-262-3L            Y SOT-223-2L/SOT-223-3L            ZA TO-3P-3L            SP CSP</p> <p>2. Type P=Planar</p> <p>1. Prefix JM JIEJIE MOSFET</p>							

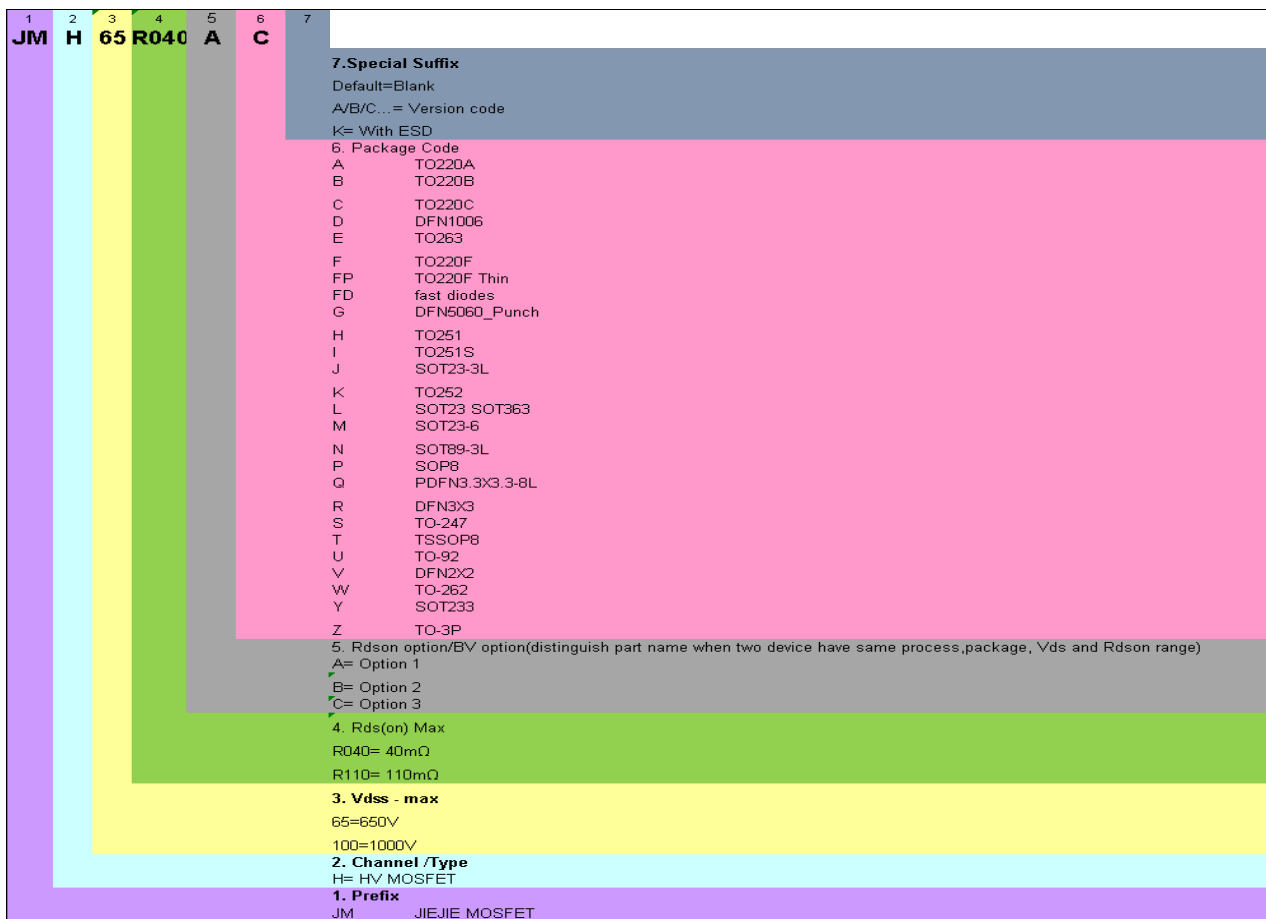


# ▶ 产品命名规则

## Nomenclature of JSFET® N-ch & JPFET® P-ch SGT MOSFETs

1	2	3	4	5	6	7	8
JM	S	L	03	02	A	G	
<p>B: Special Suffix                      Blank= Single                      D= Dual Die                      M= Multi-die &gt;2                      Q= AEC Q101                      K= With ESD                      B/C...Version code or Any other special use</p> <p>7. Package Code</p> <p>A TO220A                      B TO220B                      C TO220C                      D DFN1006-(TBD)                      E TO263                      F TO220F                      FP TO220F Thin                      G JMPower5060-8                      GL LFPak5060                      H TO251                      I TO251S                      J SOT23                      K TO252                      L SOT23(Waive)                      LA SOT323                      LB SOT363                      M SOT23-6                      MT TSOT23-6                      M1 SOT143                      M2 SOT323                      M3 SOT523                      M4 SOT553                      M5 SOT723                      N SOT89-3L                      NA DFN0603                      NB DFN1006                      NC DFN1610                      ND DFN2010                      NE DFN2510                      NL DFN2015                      NP DFN2030                      NF DFN1616                      NG DFN1212                      NH DFN1010                      NJ DFN0806                      NZ DFN0402                      NR DFN1310                      P SOP8                      PL LFPak8080(Power8080)                      Q N/A                      R DFN3x3                      S TO-247                      T TSSOP8                      TL TOLL(JMPower1012)                      U JMPower3333-8(Punch)                      UN JMPower3333-8(Saw)                      V DFN2x2                      W TO-262                      W1 TO277                      Y SOT223/SOT223-2L                      X DFN5060-8L                      Z TBD                      Z3 SOD323                      Z4 SOD523                      Z5 SOD923</p> <p>6. Rds(on) option/BV option( use to distinguish part name when two device have same process,package, Vds and Rds(on) range)                      A= 尾数Option 1 For Rds(on) &lt;10mohm only                      B= 尾数Option 2 For Rds(on) &lt;10mohm only                      C= 尾数Option 3 For Rds(on) &lt;10mohm only                      Or BV small different                      针对南芯晶圆对应产品                      P= Option 1                      M= Option 2                      T= Option 3                      Y= Option 4                      Z= Option 5                      R= Option 6                      U= Option 7                      V= Option 8</p> <p>5. Rds(on) Max                      9D= 9mohm                      9= 0.9mohm                      02= 2mohm range                      10= 10mohm range                      100= 100mohm range                      1K6= 1600mohm range</p> <p>4. Vds - Max (BVDS/10)                      03= 30V VDS                      10=100V VDS                      15=150V VDS</p> <p>3. Vth Range                      U= Ultra low Vth, Vth &lt;=1V                      L= Low Vth, 1V&lt; Vth &lt;=3.0V                      H= Std Vth, 2&lt;Vth &lt;=4V</p> <p>2. Channel/Type                      S= SGT(N-Channel)                      SP= SGT(P-Channel)                      C= Complementry                      D= Depletion-MOSFET</p> <p>1. Prefix                      JM JIEJIE MOSFET</p>							

# 产品命名规则 Nomenclature of JHFET® Super-junction HV MOSFETs



## Automotive MOSFETs (-100 ~ 650V)

车载前装及后装等各类中低压应用如辅助驾驶 (ADAS)、车载信息娱乐系统、逆变器非高压部分里的 DC-DC 同步整流、车身控制模块里「电机驱动、继电器、负载开关」等终端，捷捷微提供以下车规级 MOSFETs。击穿电压范围  $V_{BR(DSS)_{Min}}$  从 -100V 到 650V，逻辑控制电平高 (2.7 ~ 3.5V)、低 (1.5 ~ 1.9V; -1.0 ~ -3.0V) 两级阈值，导通内阻低至 0.56mΩ (@  $V_{GS} = 10V$ )，FOM 低至 55。这些功率 MOSFET 提供多种车规级小型和大功率封装选项，薄型低热阻贴片式如：PDFN3x3-8L、PDFN5x6-8L / -D、PowerJE®10x12，高热效插件式如 TO-247-3L。所有产品均在可靠性和品质方面，符合 AEC Council 及 JEDEC 等相关测试标准。

Product Name	JJM Package	Compatible Industry-common Package	Configuration	$V_{DS\_Max}$ (V)	$I_D\_Max$ (A)	$V_{GS(Th)_Typ}$ (V)	$R_{DS(ON)_Typ}$ @ $V_{GS}=10V$ (mΩ)	$R_{DS(ON)_Max}$ @ $V_{GS}=10V$ (mΩ)	$R_{DS(ON)_Typ}$ @ $V_{GS}=4.5V$ (mΩ)	$R_{DS(ON)_MAX}$ @ $V_{GS}=4.5V$ (mΩ)	$R_{DS(ON)_Typ}$ @ $V_{GS}=2.5V$ (mΩ)	$R_{DS(ON)_MAX}$ @ $V_{GS}=2.5V$ (mΩ)	$V_{GS\_Max}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$C_{oss\_Typ}$ (pF)	$C_{riss\_Typ}$ (pF)	$Q_g\_Typ$ (nC)	FOM
JMPL0622AKQ	TO-252-3L	DPAK	P	-60	-46.0	-2.0	19.8	25.0	34.0	44.0	-	-	±20	182.0	1,713	302.0	13.5	26.0	515
JMPL0648AGQ	PDFN5x6-8L	SuperSO8	P	-60	-24.0	-2.0	40.0	50.0	55.0	72.0	-	-	±20	75.0	855	189.0	9.5	13.5	540
JMPL1050AGQ	PDFN5x6-8L	SuperSO8	P	-100	-29.0	-2.0	36.0	50.0	48.0	65.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	720
JMPL1050AKQ	TO-252-3L	DPAK	P	-100	-36.0	-2.0	37.0	50.0	50.0	66.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	740
JMPL1050AUQ	PDFN3x3-8L	PQFN 3x3	P	-100	-28.0	-2.0	38.0	50.0	51.0	66.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	760
JMSL0403AGQ	PDFN5x6-8L	SuperSO8	N	40	128.0	1.5	2.5	3.1	3.3	4.5	-	-	±20	79.0	1,424	927.0	48.0	22.0	55
JMSH0403AKQ	TO-252-3L	DPAK	N	40	108.0	2.8	3.3	3.9	-	-	-	-	±20	216.0	1,632	1047.0	49.0	22.1	73
JMSL0402AKQ	TO-252-3L	DPAK	N	40	211.0	1.5	1.9	2.4	2.6	3.4	-	-	±20	338.0	3,252	1888.0	55.0	50.0	95
JMSL040SAGQ	PDFN5x6-8L	SuperSO8	N	40	387.0	1.5	0.58	0.75	0.80	0.99	-	-	±20	506.0	7,654	3738.0	44.0	114.0	66
JMSH040SAGQ	PDFN5x6-8L	SuperSO8	N	40	400.0	2.8	0.56	0.68	-	-	-	-	±20	864.0	7,445	5755.0	282.0	107.0	60
JMSL0401BGQ	PDFN5x6-8L	SuperSO8	N	40	299.0	1.5	0.83	0.98	1.2	1.6	-	-	±20	726.0	5,495	3347.0	44.0	80.0	66
JMSL0406AGQ	PDFN5x6-8L	SuperSO8	N	40	90.0	1.6	4.2	5.2	5.8	7.6	-	-	±20	36.0	1,204	536.0	51.0	17.9	75

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th),Typ</sub> (V)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)	FOM
JMSL0406AUQ	PDFN3x3-8L	PQFN 3x3	N	40	57.0	1.6	4.5	5.6	5.9	7.8	-	-	±20	36.0	1,204	536.0	51.0	17.9	81
JMSL0406AKQ	TO-252-3L	DPAK	N	40	78.0	1.6	4.7	5.6	6.0	7.8	-	-	±20	36.0	1,204	536.0	51.0	17.9	84
JMSL0406AGDQ	PDFN5x6-8L-D	-	N+N	40	49.0	1.6	5.5	6.9	7.0	9.5	-	-	±20	36.0	1,227	526.0	55.0	17.9	98
JMSL0402BGQ	PDFN5x6-8L	SuperSO8	N	40	158.0	1.6	1.9	2.5	2.5	3.4	-	-	±20	126.0	2,131	1538.0	95.0	36.0	68
JMSL0402AGQ	PDFN5x6-8L	SuperSO8	N	40	183.0	1.6	1.6	2.0	2.2	3.0	-	-	±20	163.0	3,133	1993.0	75.0	46.0	74
JMSL0401AGQ	PDFN5x6-8L	SuperSO8	N	40	198.0	1.6	1.3	1.7	1.7	2.3	-	-	±20	194.0	3,125	1607.0	18.0	47.0	61
JMSH0406AKQ	TO-252-3L	DPAK	N	40	73.0	2.8	5.0	6.2	-	-	-	-	±20	96.0	1,027	662.0	105.0	15.2	76
JMSH0406AGQ	PDFN5x6-8L	SuperSO8	N	40	90.0	2.8	4.1	5.1	-	-	-	-	±20	96.0	1,027	662.0	105.0	14.9	61
JMSH0406AGDQ	PDFN5x6-8L-D	-	N+N	40	50.0	2.8	5.2	6.5	-	-	-	-	±20	96.0	1,027	662.0	105.0	14.9	77
JMSH0401AGQ	PDFN5x6-8L	SuperSO8	N	40	197.0	2.8	1.3	1.7	-	-	-	-	±20	194.0	3,015	2000.0	18.0	42.0	55
JMSH0402AGQ	PDFN5x6-8L	SuperSO8	N	40	182.0	2.8	1.6	2.0	-	-	-	-	±20	194.0	3,020	2013.0	25.0	41.0	66
JMSH0402AKQ	TO-252-3L	DPAK	N	40	170.0	2.8	2.0	2.5	-	-	-	-	±20	194.0	3,020	2013.0	25.0	41.0	82
JMSH0402BGQ	PDFN5x6-8L	SuperSO8	N	40	166.0	2.8	2.0	2.5	-	-	-	-	±20	294.0	2,094	1922.0	100.0	33.0	66
JMSH0403AGQ	PDFN5x6-8L	SuperSO8	N	40	121.0	2.8	2.7	3.4	-	-	-	-	±20	216.0	1,542	1020.0	43.0	22.0	59
JMSH0403BGQ	PDFN5x6-8L	SuperSO8	N	40	145.0	2.8	2.2	2.8	-	-	-	-	±20	216.0	2,086	1150.0	60.0	28.0	62
JMSH0401ATLQ	PowerJE*10x12	TOLL	N	40	337.0	2.8	1.0	1.25	-	-	-	-	±20	317.0	5,280	3405.0	71.0	68.0	68
JMSH0401ATSQ	PowerJE*7x8	sTOLL	N	40	337.0	2.8	0.90	1.20	-	-	-	-	±20	441.0	5,214	3396.0	46.0	66.0	59
JMSH0401BGQ	PDFN5x6-8L	SuperSO8	N	40	276.0	2.8	0.90	1.1	-	-	-	-	±20	441.0	5,280	3405.0	71.0	68.0	61
JMSH0401CGQ	PDFN5x6-8L	SuperSO8	N	40	252.0	2.8	1.10	1.40	-	-	-	-	±20	600.0	5,304	3832.0	78.0	71.0	78
JMSL0601AGQ	PDFN5x6-8L	SuperSO8	N	60	315.0	1.5	0.90	1.2	1.3	1.7	-	-	±20	1,176.0	7,325	1,821.0	45.0	114.0	103
JMSH0602AGQ	PDFN5x6-8L	SuperSO8	N	60	168.0	2.8	1.9	2.4	-	-	-	-	±20	240.0	3,562	896.0	43.0	50.0	95
JMSH0602AEQ	TO-263-3L	-	N	60	224.0	2.8	2.0	2.5	-	-	-	-	±20	338.0	5,783	1695.0	39.0	81.0	162
JMSH0603BGQ	PDFN5x6-8L	SuperSO8	N	60	157.0	2.8	2.4	3.0	-	-	-	-	±20	338.0	3,549	959.0	38.0	51.0	122
JMSH0601AGQ	PDFN5x6-8L	SuperSO8	N	60	225.0	2.8	1.3	1.7	-	-	-	-	±20	375.0	5,874	1375.0	45.0	81.0	105
JMSH0601ATLQ	PowerJE*10x12	TOLL	N	60	348.0	2.8	1.2	1.6	-	-	-	-	±20	480.0	7,312	2239.0	53.0	102.0	122
JMSH0601BGQ	PDFN5x6-8L	SuperSO8	N	60	314.0	2.8	1.0	1.3	-	-	-	-	±20	1,014.0	7,219	1841.0	47.0	102.0	102
JMSH0602AKQ	TO-252-3L	DPAK	N	60	206.0	3.0	2.2	2.8	-	-	-	-	±20	600.0	6,240	3779.0	247.0	81.0	178
JMSH0603AKQ	TO-252-3L	DPAK	N	60	151.0	2.8	2.6	3.3	-	-	-	-	±20	338.0	2,312	1654.0	180.0	51.0	133
JMSL0612AGQ	PDFN5x6-8L	SuperSO8	N	60	52.0	1.6	9.5	12.0	12.0	16.0	-	-	±20	20.0	731	224.0	7.4	13.9	132
JMSL0612AUQ	PDFN3x3-8L	PQFN 3x3	N	60	36.0	1.6	10.0	12.5	12.3	16.0	-	-	±20	20.0	731	224.0	7.4	13.9	139
JMSL0615AGDQ	PDFN5x6-8L-D	-	N+N	60	33.0	1.6	10.5	13.5	13.5	17.5	-	-	±20	20.0	731	224.0	7.4	13.9	146
JMSL0609AGQ	PDFN5x6-8L	SuperSO8	N	60	67.0	1.6	7.2	9.4	9.0	12.0	-	-	±20	34.0	1,087	309.0	8.5	16.6	120
JMSL0609AGWQ	PDFN5x6-8L-W	SuperSO8	N	60	67.0	1.6	7.2	9.4	9.0	12.0	-	-	±20	34.0	1,087	309.0	8.5	16.6	120
JMSL0609AKQ	TO-252-3L	DPAK	N	60	59.0	1.6	7.4	9.4	9.5	12.4	-	-	±20	74.0	1,110	352.0	12.0	18.3	135
JMSL0609AUQ	PDFN3x3-8L	PQFN 3x3	N	60	44.0	1.6	7.5	9.4	9.4	12.2	-	-	±20	34.0	1,087	309.0	8.5	16.6	125
JMSL0610AGDQ	PDFN5x6-8L-D	-	N+N	60	38.0	1.6	8.5	10.6	10.2	13.0	-	-	±20	34.0	1,087	309.0	8.5	16.6	141
JMSL0604AGQ	PDFN5x6-8L	SuperSO8	N	60	112.0	1.6	3.6	4.5	4.7	5.9	-	-	±20	94.0	2,030	445.0	4.4	32.0	115
JMSH0605AGDQ	PDFN5x6-8L-D	SuperSO8	N+N	60	56.0	2.8	4.7	5.8	-	-	-	-	±20	216.0	1,492	940.0	109.0	34.0	160
JMSL0606AGQ	PDFN5x6-8L	SuperSO8	N	60	103.0	1.6	4.0	5.0	5.2	6.5	-	-	±20	94.0	2,030	445.0	4.4	32.0	128
JMSL0606AGWQ	PDFN5x6-8L-W	SuperSO8	N	60	103.0	1.6	4.0	5.0	5.2	6.5	-	-	±20	94.0	2,030	445.0	4.4	32.0	128
JMSH0606AGQ	PDFN5x6-8L	SuperSO8	N	60	103.0	2.9	3.7	4.7	-	-	-	-	±20	216.0	1,492	940.0	109.0	34.0	126
JMSL0606AKQ	TO-252-3L	DPAK	N	60	93.0	1.6	4.6	5.8	6.0	7.5	-	-	±20	94.0	2,122	440.0	4.4	32.0	147
JMSH0606AKQ	TO-252-3L	DPAK	N	60	95.0	2.8	4.4	5.5	-	-	-	-	±20	216.0	1,492	940.0	109.0	34.0	150
JMSL0606AUQ	PDFN3x3-8L	PQFN 3x3	N	60	59.0	1.6	5.0	6.2	6.0	7.8	-	-	±20	94.0	2,122	440.0	4.4	32.0	160
JMSL0605AGDQ	PDFN5x6-8L-D	SuperSO8	N+N	60	61.0	1.6	4.4	5.5	5.6	7.3	-	-	±20	182.0	1,966	596.0	36.0	33.0	145

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(H),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>iss,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMSL0601BGQ	PDFN5x6-8L	SuperSO8	N	60	252.0	1.6	1.3	1.6	1.8	2.5	-	-	±20	1,634.0	4,685	1429.0	40.0	75.0	94
JMSL0612AKQ	TO-252-3L	DPAK	N	60	57.0	1.7	9.9	12.0	12.6	16.0	-	-	±20	58.0	734	204.0	26.0	13.1	130
JMSL0620AGQ	PDFN5x6-8L	SuperSO8	N	60	172.0	1.7	1.8	2.3	2.4	3.2	-	-	±20	240.0	2,880	958.0	44.0	48.0	86
JMSL0620AGEQ	PDFN5x6-8L	SuperSO8	N	60	32.0	1.8	16.0	20.0	23.0	30.0	-	-	±20	26.0	409	143.0	24.0	7.5	120
JMSL0620AGDEQ	PDFN5x6-8L-D	-	N+N	60	23.0	1.8	18.0	23.0	25.0	33.0	-	-	±20	26.0	409	143.0	24.0	7.5	135
JMSH1001AE7Q	TO-263-7L	-	N	100	350.0	2.8	1.6	2.0	-	-	-	-	±20	512.0	9,623	2091.0	1.2	155.0	248
JMSH1008AKQ	TO-252-3L	DPAK	N	100	92.0	2.8	6.9	8.3	-	-	-	-	±20	109.0	2,360	368.0	5.9	34.0	235
JMSL1008AKQ	TO-252-3L	DPAK	N	100	98.0	1.6	6.7	8.1	8.5	11.0	-	-	±20	118.0	2,360	368.0	5.9	34.0	228
JMSH1008AGQ	PDFN5x6-8L	SuperSO8	N	100	87.0	2.7	6.2	7.8	-	-	-	-	±20	144.0	1,920	445.0	7.0	30.0	186
JMSL1008AGQ	PDFN5x6-8L	SuperSO8	N	100	88.0	1.8	6.0	7.6	8.0	10.0	-	-	±20	102.0	2,200	445.0	8.0	34.0	204
JMSL1009AGQ	PDFN5x6-8L	SuperSO8	N	100	80.0	1.7	7.0	8.2	8.9	11.2	-	-	±20	165.0	1,314	548.0	26.0	25.0	175
JMSL1009BUQ	PDFN3x3-8L	PQFN 3x3	N	100	76.0	1.7	7.7	9.2	10.0	13.0	-	-	±20	165.0	1,314	548.0	26.0	25.0	193
JMSL1010AUQ	PDFN3x3-8L	PQFN 3x3	N	100	46.0	1.9	8.5	10.6	10.5	13.7	-	-	±20	45.0	1,535	335.0	8.2	26.0	221
JMSL1010AGQ	PDFN5x6-8L	SuperSO8	N	100	68.0	1.9	8.0	10.0	10.5	13.7	-	-	±20	94.0	1,535	335.0	8.2	26.0	208
JMSL1010AKQ	TO-252-3L	DPAK	N	100	86.0	1.9	8.3	10.0	10.8	13.5	-	-	±20	94.0	1,535	335.0	8.2	26.0	216
JMSH1010AGQ	PDFN5x6-8L	SuperSO8	N	100	64.0	2.7	8.8	11.0	-	-	-	-	±20	94.0	1,372	291.0	6.2	21.0	185
JMSL1040AGQ	PDFN5x6-8L	SuperSO8	N	100	27.0	1.8	29.0	36.0	39.0	50.0	-	-	±20	14.0	363	85.0	3.0	6.8	197
JMSL1040AGDQ	PDFN5x6-8L-D	-	N+N	100	22.0	1.9	28.0	36.0	40.0	52.0	-	-	±20	11.3	363	85.0	3.0	6.8	190
JMSL1040AUQ	PDFN3x3-8L	PQFN 3x3	N	100	20.0	1.8	29.0	39.0	39.0	50.0	-	-	±20	14.0	363	85.0	3.0	6.8	197
JMSL1040AVQ	U-DFN2020-6L	-	N	100	10.6	1.9	29.0	36.0	37.0	48.0	-	-	±20	11.3	363	85.0	3.0	6.8	197
JMSL1018AGQ	PDFN5x6-8L	SuperSO8	N	100	47.0	1.8	15.0	18.7	18.7	24.4	-	-	±20	29.0	769	171.0	5.1	12.7	191
JMSL1018AUQ	PDFN3x3-8L	PQFN 3x3	N	100	29.0	1.8	16.2	20.0	20.8	27.0	-	-	±20	29.0	769	171.0	5.1	12.7	206
JMSL1020AGDQ	PDFN5x6-8L-D	-	N+N	100	27.0	1.8	16.5	20.0	21.0	27.0	-	-	±20	29.0	769	171.0	5.1	12.7	210
JMSL1006AGQ	PDFN5x6-8L	SuperSO8	N	100	110.0	1.8	4.7	5.9	5.9	7.7	-	-	±20	110.0	2,604	567.0	9.6	42.0	197
JMSL1018AKQ	TO-252-3L	DPAK	N	100	45.0	1.9	15.0	18.8	19.5	26.0	-	-	±20	43.0	769	171.0	5.1	12.7	191
JMSH1018AGQ	PDFN5x6-8L	SuperSO8	N	100	45.0	2.7	15.8	19.8	-	-	-	-	±20	39.0	769	171.0	5.1	12.7	201
JMSH1004BGQ	PDFN5x6-8L	SuperSO8	N	100	138.0	2.7	3.3	4.3	-	-	-	-	±20	231.0	3,434	906.0	14.0	57.0	188
JMSH1004BGWQ	PDFN5x6-8L-W	-	N	100	152.0	2.9	3.6	4.3	-	-	-	-	±20	450.0	3,434	906.0	14.0	57.0	205
JMSH1004BEQ	TO-263-3L	D <sup>2</sup> PAK	N	100	160.0	2.7	3.5	4.2	-	-	-	-	±20	304.0	3,433	905.0	13.0	57.0	200
JMSH1003AGQ	PDFN5x6-8L	SuperSO8	N	100	170.0	2.7	2.8	3.5	-	-	-	-	±20	346.0	4,374	1140.0	4.7	70.0	196
JMSH1003AGWQ	PDFN5x6-8L-W	-	N	100	178.0	2.9	2.8	3.4	-	-	-	-	±20	481.0	4,797	900.0	19.1	69.0	193
JMSH1004AEQ	TO-263-3L	-	N	100	216.0	2.7	3.0	3.8	-	-	-	-	±20	375.0	4,398	1361.0	8.5	66.0	198
JMSH1003AE7Q	TO-263-7L	D <sup>3</sup> PAK7	N	100	196.0	2.7	2.8	3.5	-	-	-	-	±20	406.0	4,398	1361.0	8.5	66.0	185
JMSH1002AEQ	TO-263-3L	D <sup>2</sup> PAK	N	100	350.0	2.7	1.6	2.0	-	-	-	-	±20	1,250.0	9,623	2091.0	1.2	155.0	248
JMSH1002ASQ	TO-247-3L	TO-247	N	100	333.0	2.7	1.8	2.2	-	-	-	-	±20	1,458.0	9,623	2091.0	32.0	155.0	279
JMSH1010AKQ	TO-252-3L	DPAK	N	100	79.0	2.8	9.2	11.5	-	-	-	-	±20	86.0	1,372	291.0	6.2	21.0	193
JMSH1001ATLQ	PowerJE*10x12	TOLL	N	100	479.0	2.8	1.3	1.6	-	-	-	-	±20	512.0	9,623	2091.0	32.0	155.0	202
JMSH1508AEQ	TO-263-3L	D <sup>2</sup> PAK	N	150	117.0	3.2	6.7	8.4	-	-	-	-	±20	265.0	3,395	457.0	17.0	47.0	315
JMSH1509AGQ	PDFN5x6-8L	SuperSO8	N	150	87.0	3.2	8.5	9.9	-	-	-	-	±20	331.0	2,181	363.0	7.9	30.0	255
JMSH1516AEQ	TO-263-3L	D <sup>2</sup> PAK	N	150	71.0	3.2	14.0	16.8	-	-	-	-	±20	192.0	1,603	196.0	7.5	23.0	322
JMSH1506ASQ	TO-247-3L	TO-247	N	150	174.0	3.2	5.2	6.5	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	354
JMSH1507AEQ	TO-263-3L	D <sup>2</sup> PAK	N	150	161.0	3.2	5.2	6.5	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	354
JMSH1504ATLQ	PowerJE*10x12	TOLL	N	150	227.0	3.2	3.3	4.2	-	-	-	-	±20	800.0	6,540	772.0	6.7	88.0	290
JMSH1504AEQ	TO-263-3L	D <sup>2</sup> PAK	N	150	210.0	3.2	3.9	4.9	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	343
JMSH1504ASQ	TO-247-3L	TO-247	N	150	230.0	3.2	4.0	4.9	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	352
JMSH1535AGQ	PDFN5x6-8L	SuperSO8	N	150	29.0	3.3	27.0	35.0	-	-	-	-	±20	48.0	760	113.0	23.0	12.3	332
JMSH1565AKSQ	TO-252-3L	DPAK	N	150	26.0	3.2	52.0	65.0	-	-	-	-	±20	39.0	306	70.0	3.8	5.3	276
JMSH1566AKQ	TO-252-3L	DPAK	N	150	20.0	3.2	57.0	72.0	-	-	-	-	±20	10.5	360	54.0	3.8	5.9	336
JMH65R980AKQ	TO-252-3L	DPAK	N	650	4.0	3.5	820.0	980.0	-	-	-	-	±20	80.0	333	20.0	2.5	9.7	7,954
JMH65R040ASFDQ	TO-247-3L	TO-247	N	650	71.0	4.0	35.0	40.0	-	-	-	-	±20	1,125.0	6,843	250.0	4.3	163.0	5,705

**-40 ~ 400V**

对于消费类电子产品（快速充电器、个人音频、家用电器、游戏和玩具、个人计算、电源工具、汽车）、网络设备（路由器、多端口交换机、存储 / 安全服务器）、通信设备、工业设备等，捷捷微电提供以下 MOSFETs 予电路设计工程师选用。

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(th)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>riss_Typ</sub> (pF)	Q <sub>g_Typ</sub> (nC)	FOM
JMTK085P04A	TO-252-3L	DPAK	P	-40	-70.0	-1.5	7.1	9.2	9.3	13.0	-	-	±20	182.0	7,200	625.0	437.0	115.0	817
JMTC085P04A	TO-220C-3L	TO-220	P	-40	-70.0	-1.5	8.0	10.0	11.0	15.0	-	-	±20	324.0	7,200	625.0	437.0	115.0	920
JMTK130P04A	TO-252-3L	DPAK	P	-40	-40.0	-1.7	10.0	13.0	15.0	22.0	-	-	±20	144.0	3,800	329.0	289.0	68.0	680
JMTG130P04A	PDFN5x6-8L	SuperSO8	P	-40	-35.0	-1.7	9.4	12.5	13.4	18.5	-	-	±20	121.0	3,800	329.0	289.0	68.0	639
JMTP130P04A	SOP-8	SOP-8	P	-40	-12.0	-1.7	11.0	14.3	15.5	22.0	-	-	±20	-	3,800	329.0	289.0	68.0	748
JMTQ130P04A	PDFN3x3-8L	PQFN 3x3	P	-40	-30.0	-1.5	10.3	13.0	13.6	19.0	-	-	±20	110.0	3,700	340.0	290.0	68.0	700
JMTP520P04A	SOP-8	SOP-8	P	-40	-5.5	-1.6	39.0	51.0	56.0	78.0	-	-	±20	-	869	94.0	69.0	17.3	675
JMTK440P04A	TO-252-3L	DPAK	P	-40	-10.0	-1.6	31.0	39.0	43.0	56.0	-	-	±20	40.0	985	98.0	68.0	20.0	620
JMTQ440P04A	PDFN3x3-8L	PQFN 3x3	P	-40	-8.0	-1.6	33.0	43.0	44.0	60.0	-	-	±20	25.0	1,034	107.0	79.5	20.0	660
JMTP440P04A	SOP-8	SOP-8	P	-40	-6.0	-1.5	36.0	47.0	47.0	66.0	-	-	±20	27.6	1,034	107.0	79.5	20.0	720
JMTP850P04A	SOP-8	SOP-8	P	-40	-5.0	-1.6	65.0	85.0	80.0	112.0	@V <sub>GS</sub> =2.5V	@V <sub>GS</sub> =2.5V	±20	-	573	53.0	42.0	7.1	462
JMTL850P04A	SOT-23	SOT-23	P	-40	-5.0	-1.6	70.0	88.0	90.0	117.0	-	-	±20	-	520	54.0	48.0	10.0	700
JMTM850P04A	SOT-23-6L	-	P	-40	-5.0	-1.6	66.0	85.0	82.0	115.0	-	-	±20	-	573	53.0	42.0	7.1	469
JMTG050P03A	PDFN5x6-8L	SuperSO8	P	-30	-80.0	-1.5	3.3	4.1	5.1	6.6	-	-	±20	342.0	8,180	945.0	650.0	125.0	413
JMTK050P03A	TO-252-3L	DPAK	P	-30	-100.0	-1.5	4.0	5.3	5.8	8.2	-	-	±20	225.0	9,400	1,000.0	767.0	42.0	168
JMTK060P03A	TO-252-3L	DPAK	P	-30	-90.0	-1.6	4.9	6.4	7.5	10.5	-	-	±20	210.0	6,800	769.0	726.0	30.0	147
JMTG060P03A	PDFN5x6-8L	SuperSO8	P	-30	-75.0	-1.6	4.3	5.4	7.0	9.1	-	-	±20	210.0	6,800	769.0	726.0	30.0	129
JMTQ080P03A	PDFN3x3-8L	PQFN 3x3	P	-30	-45.0	-1.5	5.8	7.3	9.0	11.7	-	-	±20	196.0	4,650	550.0	486.0	76.0	441
JMTK080P03A	TO-252-3L	DPAK	P	-30	-60.0	-1.5	5.8	7.5	9.0	12.6	-	-	±20	144.0	4,650	550.0	486.0	76.0	441
JMTI080P03A	TO-251-3L	DPAK3	P	-30	-60.0	-1.5	5.8	7.5	9.0	12.6	-	-	±20	144.0	4,650	550.0	486.0	45.0	261
JMTG080P03A	PDFN5x6-8L	SuperSO8	P	-30	-50.0	-1.5	6.0	7.8	9.0	12.6	-	-	±20	144.0	4,650	550.0	486.0	76.0	456
JMTP080P03A	SOP-8	SOP-8	P	-30	-15.0	-1.5	7.0	9.0	10.0	14.0	-	-	±20	144.0	4,650	550.0	486.0	45.0	315
JMTQ100P03A	PDFN3x3-8L	PQFN 3x3	P	-30	-40.0	-1.6	7.5	9.4	11.6	15.1	-	-	±20	132.0	3,766	437.0	343.0	68.0	510
JMTK100P03A	TO-252-3L	DPAK	P	-30	-55.0	-1.6	7.5	10.0	11.6	16.0	-	-	±20	121.0	3,564	416.0	373.0	37.0	278
JMTG100P03A	PDFN5x6-8L	SuperSO8	P	-30	-45.0	-1.6	7.6	9.5	12.0	15.6	-	-	±20	113.0	3,564	416.0	373.0	37.0	281
JMTK50P03A	TO-252-3L	DPAK	P	-30	-50.0	-1.5	8.6	11.0	13.0	18.0	-	-	±20	78.8	2,800	346.0	319.0	30.0	258
JMTQ4407A	PDFN3x3-8L	PQFN 3x3	P	-30	-35.0	-1.5	8.6	10.8	13.0	16.9	-	-	±20	110.0	2,800	346.0	319.0	52.0	258
JMTP4407A	SOP-8	SOP-8	P	-30	-12.0	-1.5	9.3	14.0	14.0	20.0	-	-	±20	64.0	2,800	346.0	319.0	30.0	279
JMTK160P03A	TO-252-3L	DPAK	P	-30	-45.0	-1.6	10.0	14.0	16.0	22.5	-	-	±20	64.0	2,130	280.0	252.0	40.0	400
JMTP160P03D	SOP-8	SOP-8	P+P	-30	-11.0	-1.6	12.7	17.0	19.0	27.0	-	-	±20	68.0	2,130	280.0	252.0	22.0	279
JMTQ160P03A	PDFN3x3-8L	PQFN 3x3	P	-30	-15.0	-1.6	11.0	14.0	17.0	24.0	-	-	±20	40.0	2,070	273.0	246.0	22.0	242
JMTP4407B	SOP-8	SOP-8	P	-30	-11.0	-1.5	12.7	16.5	19.0	26.5	-	-	±20	68.0	2,130	280.0	252.0	40.0	508
JMTV200P03A	DFN2020-6L	PQFN 2x2	P	-30	-11.0	-1.5	16.0	20.0	24.0	31.0	-	-	±20	49.0	1,432	186.0	147.0	28.0	448
JMTQ200P03A	PDFN3x3-8L	PQFN 3x3	P	-30	-12.0	-1.5	16.0	20.0	26.0	34.0	-	-	±20	49.0	1,432	186.0	147.0	28.0	448
JMTP4435A	SOP-8	SOP-8	P	-30	-10.0	-1.5	16.0	23.0	25.0	34.0	-	-	±20	56.0	1,432	186.0	147.0	28.0	448
JMTK340P03A	TO-252-3L	DPAK	P	-30	-20.0	-1.5	26.0	34.0	36.0	50.0	-	-	±20	20.0	968	135.0	109.0	10.0	260



Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(ON),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>rrs,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMTP250P03A	SOP-8	-	P	-30	-9.0	-1.5	19.0	25.0	27.0	38.0	-	-	±20	25.0	1,200	155.0	139.0	52.0	988
JMTP340P03A	SOP-8	SOP-8	P	-30	-7.0	-1.5	27.0	35.0	38.0	54.0	-	-	±20	-	982	135.0	109.0	10.0	270
JMTL3407A	SOT-23	SOT-23	P	-30	-4.1	-1.5	42.0	55.0	62.0	85.0	-	-	±20	-	580	98.0	74.0	11.0	462
JMTP4953A	SOP-8	SOP-8	P+P	-30	-5.1	-1.6	43.0	55.0	66.0	90.0	-	-	±20	-	580	98.0	74.0	6.8	292
JMTP9435A	SOP-8	SOP-8	P	-30	-5.1	-1.6	43.0	55.0	65.0	90.0	-	-	±20	-	596	95.0	68.0	6.8	292
JMTJ3407A	SOT-23-3L	-	P	-30	-4.1	-1.7	44.0	60.0	70.0	85.0	-	-	±20	-	580	98.0	74.0	6.8	299
JMTL3401A	SOT-23	SOT-23	P	-30	-4.2	-0.9	45.0	55.0	53.0	68.0	72.0	96.0	±12	-	880	105.0	65.0	16.0	720
JMTJ3401A	SOT-23-3L	-	P	-30	-4.2	-0.9	48.0	60.0	57.0	78.0	77.0	112.0	±12	-	880	105.0	65.0	8.5	408
JMTG030P02A	PDFN5x6-8L	SuperSO8	P	-20	-85.0	-0.7	-	-	2.1	2.6	2.7	3.5	±12	154.0	15,000	1,600.0	1,068.0	100.0	-
JMTQ55P02A	PDFN3x3-8L	PQFN 3x3	P	-20	-55.0	-0.7	-	-	6.6	8.3	8.0	10.4	±12	90.0	4,770	570.0	502.0	56.0	370
JMTK50P02A	TO-252-3L	DPAK	P	-20	-60.0	-0.7	-	-	6.6	8.5	8.0	12.0	±12	-	4,590	505.0	440.0	56.0	-
JMTI210P02A	TO-251-3L	DPAK3	P	-20	-20.0	-0.7	-	-	12.0	16.0	17.0	24.0	±12	36.0	2,000	242.0	231.0	16.0	-
JMTP085P02A	SOP-8	-	P	-20	-15.0	-0.7	-	-	7.0	9.0	9.0	13.0	±12	56.0	4,600	460.0	459.0	56.0	-
JMTV210P02A	DFN2020-6L	PQFN 2x2	P	-20	-12.0	-0.7	-	-	17.0	22.0	22.0	30.0	±12	-	2,000	242.0	231.0	16.0	-
JMTV250P02A	DFN2020-6L	PQFN 2x2	P	-20	-10.0	-0.7	-	-	15.3	19.2	21.4	27.8	±12	25.0	1,200	191.0	168.0	14.0	-
JMTV2305A	DFN2020-6L	PQFN 2x2	P	-20	-7.0	-0.7	-	-	25.0	31.0	36.0	47.0	±12	16.0	830	132.0	85.0	8.8	220
JMTJ210P02A	SOT-23-3L	-	P	-20	-7.0	-0.7	-	-	18.7	24.5	22.7	32.0	±12	-	2,000	242.0	231.0	15.3	-
JMTJ250P02A	SOT-23-3L	-	P	-20	-5.0	-0.7	-	-	20.0	26.0	27.0	37.0	±12	-	1,200	191.0	168.0	33.7	-
JMTJ3415KL	SOT-23-3L	-	P	-20	-4.1	-0.7	-	-	29.0	38.0	38.0	53.0	±10	-	289	98.0	22.0	33.7	-
JMTL2305A	SOT-23	SOT-23	P	-20	-4.1	-0.7	-	-	32.0	42.0	42.0	60.0	±12	-	830	132.0	85.0	8.8	-
JMTL3415KL	SOT-23	SOT-23	P	-20	-4.1	-0.7	-	-	31.0	40.0	40.0	56.0	±10	-	289	98.0	22.0	9.0	-
JMTP4953B	SOP-8	-	P+P	-20	-4.0	-0.7	-	-	50.0	65.0	65.0	90.0	±12	-	503	67.0	58.0	4.1	-
JMTM3415KL	SOT-23-6L	-	P	-20	-4.1	-0.7	-	-	30.0	39.0	40.0	56.0	±10	-	289	98.0	22.0	4.1	-
JMTL2301C	SOT-23	SOT-23	P	-20	-3.0	-0.7	-	-	55.0	70.0	70.0	100.0	±12	-	503	67.0	58.0	4.1	-
JMTL2301B	SOT-23	SOT-23	P	-20	-2.5	-0.7	-	-	80.0	104.0	110.0	154.0	±12	-	248	42.0	31.0	2.9	232
JMTL2301E	SOT-23	SOT-23	P	-20	-2.0	-0.7	-	-	95.0	125.0	135.0	190.0	±12	-	185	35.0	25.0	2.2	-
JMTV2333A	DFN2020-6L	PQFN 2x2	P	-12	-8.0	-0.7	-	-	15.0	20.0	22.0	32.0	±12	-	1,300	302.0	279.0	14.0	-
JMTJ2333A	SOT-23-3L	-	P	-12	-7.0	-0.7	-	-	19.5	27.0	26.5	40.0	±12	-	1,300	302.0	279.0	19.0	-
JMTL2305B	SOT-23	SOT-23	P	-12	-4.1	-0.7	-	-	26.0	36.0	35.0	53.0	±12	-	905	210.0	195.0	7.8	-
JMTQ025N02A	PDFN3x3-8L	PQFN 3x3	N	20	80.0	1.0	2.1	2.7	2.3	3.0	3.2	4.2	±12	210.0	6,215	824.0	723.0	64.0	134
JMTK90N02A	TO-252-3L	DPAK	N	20	90.0	0.8	-	-	2.8	3.6	3.8	4.9	±12	156.0	3,476	528.0	464.0	65.0	182
JMTG90N02A	PDFN5x6-8L	SuperSO8	N	20	75.0	0.8	-	-	2.8	3.6	3.6	4.7	±12	156.0	3,476	528.0	464.0	65.0	182
JMTQ90N02A	PDFN3x3-8L	PQFN 3x3	N	20	60.0	0.8	-	-	3.0	3.9	3.8	4.9	±12	121.0	3,476	528.0	464.0	65.0	195
JMTK75N02A	TO-252-3L	DPAK	N	20	75.0	0.7	-	-	4.1	5.0	6.5	9.0	±12	56.2	2,500	407.0	386.0	32.0	-
JMTI080N02A	TO-251-3L	DPAK3	N	20	50.0	0.7	-	-	6.0	8.0	8.3	12.0	±12	36.0	1,458	238.0	212.0	16.0	-
JMTQ050N02A	PDFN3x3-8L	PQFN 3x3	N	20	50.0	0.7	-	-	3.8	5.0	5.5	8.0	±12	56.2	2,500	407.0	386.0	23.0	-
JMTK2006A	TO-252-3L	DPAK	N	20	60.0	0.7	-	-	4.8	6.5	6.8	10.0	±12	47.6	1,832	289.0	271.0	23.0	-

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GSth_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_MAX</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_MAX</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>res_Typ</sub> (pF)	Q <sub>s_Typ</sub> (nC)	FOM
JMTK2007A	TO-252-3L	DPAK	N	20	50.0	0.8	-	-	6.2	8.1	8.2	10.7	±12	49.0	1,613	228.0	200.0	18.0	112
JMTK100N02A	TO-252-3L	DPAK	N	20	30.0	0.8	-	-	8.0	10.4	10.1	13.1	±12	30.0	1,195	175.0	150.0	13.0	104
JMTV070N02A	DFN2020-6L	PQFN 2x2	N	20	25.0	0.7	-	-	5.3	6.6	7.4	9.6	±12	49.0	1,567	281.0	239.0	19.0	101
JMTV080N02A	DFN2020-6L	PQFN 2x2	N	20	20.0	0.8	-	-	6.9	9.0	9.0	11.7	±12	36.0	1,613	228.0	200.0	17.0	117
JMTV100N02A	DFN2020-6L	PQFN 2x2	N	20	10.0	0.8	-	-	10.0	13.0	15.0	21.0	±12	-	946	204.0	178.0	15.0	-
JMTJ100N02A	SOT-23-3L	-	N	20	8.0	0.8	-	-	11.0	14.0	16.0	22.5	±12	-	1,000	182.0	164.0	15.0	-
JMTL2312A	SOT-23	SOT-23	N	20	6.8	0.7	-	-	16.0	21.0	20.0	30.0	±12	-	780	140.0	80.0	9.0	-
JMTL3416KS	SOT-23	SOT-23	N	20	5.0	0.7	-	-	17.0	22.0	26.0	36.0	±10	-	545	103.0	90.0	8.0	-
JMTL2302C	SOT-23	SOT-23	N	20	4.0	0.7	-	-	21.0	27.0	29.0	44.0	±12	-	358	69.3	58.5	8.0	-
JMTJ2302C	SOT-23-3L	-	N	20	4.0	0.7	-	-	22.0	29.0	29.0	44.0	±12	-	358	69.3	58.5	5.6	-
JMTM8810KS	SOT-23-6L	-	N+N	20	4.8	0.7	-	-	15.0	20.0	25.0	35.0	±10	-	545	103.0	90.0	5.6	-
JMTT8810KS	TSSOP-8	-	N+N	20	4.8	0.7	-	-	17.0	22.0	25.0	35.0	±10	-	545	103.0	90.0	8.0	-
JMTP9926A	SOP-8	SOP-8	N+N	20	6.5	0.7	-	-	14.0	17.5	18.0	23.4	±12	25.0	651	122.0	107.0	9.0	-
JMTP9926B	SOP-8	SOP-8	N+N	20	6.0	0.7	-	-	20.0	28.0	25.5	38.0	±12	-	358	69.3	58.5	5.6	-
JMTL2302B	SOT-23	SOT-23	N	20	3.0	0.7	-	-	45.0	55.0	62.0	85.0	±12	-	184	38.0	28.0	5.6	-
JMTD3134K	DFN1006-3L	-	N	20	0.8	0.7	-	-	125.0	165.0	185.0	260.0	±10	-	60	22.0	12.0	1.0	-
JMTL3134KT5	SOT-523-3L	-	N	20	0.8	0.7	-	-	145.0	190.0	225.0	315.0	±10	-	60	22.0	12.0	1.0	-
JMTL3134KT7	SOT-723-3L	-	N	20	0.8	0.7	-	-	120.0	160.0	180.0	260.0	±10	-	60	22.0	12.0	1.0	-
JMTL3134K	SOT-23	SOT-23	N	20	0.9	0.7	-	-	135.0	175.0	195.0	275.0	±10	-	60	22.0	12.0	1.0	-
JMTLA3134K	SOT-323-3L	-	N	20	0.9	0.7	-	-	135.0	175.0	195.0	275.0	±10	-	60	22.0	12.0	1.0	-
JMTLB3134K	SOT-363-6L	-	N+N	20	0.9	0.7	-	-	135.0	175.0	195.0	275.0	±10	-	60	22.0	12.0	1.0	-
JMTG3002B	PDFN5x6-8L	SuperSO8	N	30	120.0	1.5	1.8	2.3	3.2	4.2	-	-	±20	225.0	4,930	682.0	566.0	93.0	167
JMTE018N03A	TO-263-3L	D <sup>2</sup> PAK	N	30	190.0	1.6	1.7	2.3	2.6	3.7	-	-	±20	441.0	6,847	940.0	604.0	93.0	158
JMTC018N03A	TO-220C-3L	TO-220	N	30	190.0	1.7	2.1	2.7	3.0	4.2	-	-	±20	225.0	6,006	931.0	557.0	93.0	195
JMTK018N03A	TO-252-3L	DPAK	N	30	190.0	1.6	2.0	2.6	3.0	4.2	-	-	±20	441.0	6,847	940.0	604.0	93.0	186
JMTG018N03A	PDFN5x6-8L	SuperSO8	N	30	130.0	1.6	1.4	1.8	2.3	3.0	-	-	±20	225.0	6,682	971.0	627.0	93.0	130
JMTE3002B	TO-263-3L	D <sup>2</sup> PAK	N	30	180.0	1.5	2.0	2.4	3.5	5.0	-	-	±20	324.0	4,930	682.0	566.0	93.0	181
JMTK3002B	TO-252-3L	DPAK	N	30	180.0	1.5	2.1	2.7	3.5	5.0	-	-	±20	324.0	4,930	682.0	566.0	70.0	147
JMTR3002A	DFN3333-8L	-	N	30	100.0	1.9	2.3	3.0	3.6	4.7	-	-	±20	256.0	5,065	574.0	472.0	97.0	223
JMTE3003A	TO-263-3L	D2PAK	N	30	150.0	1.9	2.2	2.9	5.0	6.5	-	-	±20	210.0	3,650	494.0	366.0	67.0	147
JMTC3003A	TO-220C-3L	TO-220	N	30	150.0	1.9	2.5	3.3	4.8	6.2	-	-	±20	210.0	3,650	494.0	366.0	67.0	168
JMTG3003A	PDFN5x6-8L	SuperSO8	N	30	90.0	1.9	2.4	3.1	4.9	6.4	-	-	±20	210.0	3,650	494.0	366.0	67.0	161
JMTQ3003A	PDFN3x3-8L	PQFN 3x3	N	30	80.0	1.6	2.5	3.3	4.5	6.3	-	-	±20	156.0	3,500	500.0	431.0	70.0	175
JMTK3003A	TO-252-3L	DPAK	N	30	150.0	1.9	2.6	3.4	4.9	6.4	-	-	±20	210.0	3,650	494.0	366.0	67.0	174
JMTG040N03A	PDFN5x6-8L	SuperSO8	N	30	80.0	1.9	2.6	3.4	4.3	5.6	-	-	±20	156.0	3,089	372.0	302.0	58.0	151
JMTK3004A	TO-252-3L	DPAK	N	30	100.0	1.9	2.8	3.6	4.7	6.1	-	-	±20	156.0	3,089	372.0	302.0	58.0	162
JMTK3005L	TO-252-3L	DPAK	N	30	90.0	1.1	3.0	4.0	4.7	6.6	-	-	±20	81.0	1,700	320.0	300.0	45.0	135
JMTQ040N03A	PDFN3x3-8L	PQFN 3x3	N	30	60.0	1.9	3.1	4.0	4.8	6.2	-	-	±20	121.0	3,089	372.0	302.0	58.0	180

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(on),Typ</sub> (V)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>res,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMTI3005A	TO-251-3L	DPAK3	N	30	90.0	1.5	3.1	4.5	5.2	9.5	-	-	±20	81.0	2,100	326.0	282.0	30.0	93
JMTK3005A	TO-252-3L	DPAK	N	30	100.0	1.9	3.4	4.4	5.7	7.4	-	-	±20	110.0	2,260	296.0	230.0	42.0	143
JMTQ3005A	PDFN3x3-8L	PQFN 3x3	N	30	50.0	1.9	3.7	4.8	6.4	8.3	-	-	±20	100.0	2,260	296.0	230.0	42.0	155
JMTC3005A	TO-220C-3L	TO-220	N	30	90.0	1.5	3.8	5.0	7.0	10.0	-	-	±20	90.0	1,950	320.0	240.0	45.0	171
JMTG3005A	PDFN5x6-8L	SuperSO8	N	30	60.0	1.9	3.6	4.7	6.1	7.9	-	-	±20	110.0	2,260	296.0	230.0	42.0	151
JMTP045N03A	SOP-8	SOP-8	N	30	20.0	1.0	4.6	6.0	6.1	8.6	-	-	±20	100.0	1,700	320.0	300.0	45.0	207
JMTK3006B	TO-252-3L	DPAK	N	30	70.0	1.6	4.6	6.0	7.3	9.5	-	-	±20	81.0	1,788	225.0	180.0	34.0	156
JMTQ3006B	PDFN3x3-8L	PQFN 3x3	N	30	40.0	1.6	4.7	6.1	7.4	9.6	-	-	±20	64.0	1,788	225.0	180.0	34.0	160
JMTK50N03A	TO-252-3L	DPAK	N	30	50.0	1.8	6.6	8.6	9.9	12.9	-	-	±20	49.0	1,174	162.0	130.0	23.0	152
JMTG3008A	PDFN5x6-8L	SuperSO8	N	30	40.0	1.8	6.6	8.6	9.6	12.5	-	-	±20	49.0	1,174	162.0	130.0	23.0	152
JMTQ3008A	PDFN3x3-8L	PQFN 3x3	N	30	30.0	1.8	6.6	8.6	9.9	12.9	-	-	±20	49.0	1,174	162.0	130.0	23.0	152
JMTQ075N03D	PDFN3x3-8L-D	-	N+N	30	25.0	1.8	9.1	11.8	12.6	16.4	-	-	±20	36.0	1,174	162.0	130.0	23.0	209
JMTP3008A	SOP-8	SOP-8	N	30	15.0	1.5	6.2	8.0	10.0	14.0	-	-	±20	39.0	1,116	187.0	152.0	13.3	82
JMTV3010A	DFN2020-6L	PQFN 2x2	N	30	20.0	1.5	7.5	10.0	11.5	17.0	-	-	±20	33.0	1,011	142.0	119.0	13.3	100
JMTK100N03A	TO-252-3L	DPAK	N	30	40.0	1.5	7.6	10.0	11.5	17.0	-	-	±20	33.0	1,011	142.0	119.0	19.0	144
JMTP4406A	SOP-8	SOP-8	N	30	13.0	1.5	8.8	12.0	13.0	18.0	-	-	±20	33.0	1,011	142.0	119.0	19.0	167
JMTG100N03A	PDFN5x6-8L	SuperSO8	N	30	30.0	1.5	7.0	9.0	11.0	15.0	-	-	±20	28.0	1,011	142.0	119.0	19.0	133
JMTQ100N03A	PDFN3x3-8L	PQFN 3x3	N	30	25.0	1.5	7.0	9.0	10.5	14.5	-	-	±20	23.0	1,011	142.0	119.0	19.0	133
JMTP3010D	SOP-8	SOP-8	N+N	30	12.0	1.5	9.0	12.0	13.0	18.0	-	-	±20	16.0	1,011	142.0	119.0	19.0	171
JMTQ3010D	PDFN3x3-8L-D	-	N+N	30	22.0	1.5	10.0	13.0	14.0	19.0	-	-	±20	24.0	1,011	142.0	119.0	19.0	190
JMTV075N03A	DFN2020-6L	-	N	30	22.0	1.5	6.3	8.0	9.8	13.0	-	-	±20	42.0	1,072	170.0	128.0	23.0	145
JMTK120N03A	TO-252-3L	DPAK	N	30	20.0	1.7	9.4	12.2	15.8	20.5	-	-	±20	25.0	853	106.0	82.0	16.0	150
JMTQ120N03A	PDFN3x3-8L	PQFN 3x3	N	30	18.0	1.7	9.1	11.8	14.7	19.8	-	-	±20	20.0	853	106.0	82.0	16.0	146
JMTQ120N03D	PDFN3x3-8L-D	-	N+N	30	15.0	1.7	11.0	14.3	16.7	21.7	-	-	±20	20.0	853	106.0	82.0	16.0	176
JMTQ240N03A	PDFN3x3-8L	PQFN 3x3	N	30	12.0	1.5	15.0	20.0	21.0	29.0	-	-	±20	11.0	490	79.0	61.0	5.2	78
JMTV120N03A	DFN2020-6L	-	N	30	12.0	1.7	9.2	12.0	15.0	19.5	-	-	±20	20.0	853	106.0	82.0	17.0	156
JMTQ240N03D	PDFN3x3-8L-D	-	N+N	30	12.0	1.5	15.0	20.0	21.0	29.0	-	-	±20	9.9	490	79.0	61.0	5.2	78
JMTV240N03A	DFN2020-6L	-	N	30	10.0	1.5	14.5	18.0	20.5	27.0	-	-	±20	9.0	490	79.0	61.0	10.0	145
JMTP240N03D	SOP-8	-	N+N	30	9.0	1.5	15.0	20.0	21.0	29.0	-	-	±20	9.0	490	79.0	61.0	10.0	150
JMTP260N03D	SOP-8	SOP-8	N+N	30	8.0	0.9	18.0	25.0	20.0	30.0	25.0	40.0	±12	-	702	66.0	52.0	4.8	86
JMTL3404A	SOT-23	SOT-23	N	30	5.8	1.5	18.0	25.0	28.0	40.0	-	-	±20	-	490	79.0	61.0	5.2	94
JMTV3400A	DFN2020-6L	PQFN 2x2	N	30	8.0	1.0	17.7	23.0	19.3	25.1	24.0	31.2	±12	-	785	65.0	54.0	19.0	336
JMTL3400A	SOT-23	SOT-23	N	30	5.8	0.9	19.0	26.0	23.0	32.0	35.0	50.0	±12	-	702	66.0	52.0	7.5	143
JMTJ3400A	SOT-23-3L	-	N	30	5.8	1.0	20.5	26.7	22.0	28.6	27.1	35.2	±12	-	785	65.0	54.0	19.0	390
JMTL3400L	SOT-23	SOT-23	N	30	5.0	0.9	24.0	31.0	27.0	38.0	36.0	54.0	±12	-	507	52.0	43.0	9.1	218

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(ON),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)	FOM
JMTM300N03D	SOT-23-6L	-	N+N	30	4.8	0.9	25.0	33.0	28.0	39.0	38.0	57.0	±12	-	507	52.0	43.0	9.1	228
JMTP380N03D	SOP-8	-	N	30	4.5	1.5	28.0	36.0	40.0	56.0	-	-	±20	3.0	233	44.0	33.0	3.0	84
JMTL3402A	SOT-23	SOT-23	N	30	4.0	0.9	32.0	42.0	36.0	48.0	50.0	70.0	±12	-	285	33.0	27.0	2.6	83
JMTL3406A	SOT-23	SOT-23	N	30	4.0	1.5	29.0	38.0	45.0	65.0	-	-	±20	-	233	44.0	33.0	3.0	87
JMTM3406D	SOT-23-6L	-	N+N	30	3.8	1.5	29.0	38.0	46.0	65.0	-	-	±20	-	233	44.0	33.0	3.0	87
JMTG016N04A	PDFN5x6-8L	SuperSO8	N	40	210.0	1.7	1.2	1.6	2.1	3.0	-	-	±20	420.0	14,700	843.0	830.0	3.0	4
JMTC025N04D	TO-220C-3L	TO-220	N	40	190.0	3.0	1.9	2.6	-	-	-	-	±25	576.0	9,060	1,000.0	666.0	145.0	276
JMTE025N04D	TO-263-3L	D <sup>2</sup> PAK	N	40	190.0	3.0	1.9	2.6	-	-	-	-	±25	576.0	9,060	1,000.0	666.0	145.0	276
JMTG4004A	PDFN5x6-8L	SuperSO8	N	40	100.0	1.6	2.7	3.5	3.8	5.4	-	-	±20	150.0	5,595	411.0	340.0	65.0	176
JMTK035N04L	TO-252-3L	DPAK	N	40	150.0	1.5	2.9	3.8	3.9	5.5	-	-	±20	196.0	6,857	495.0	322.0	89.0	258
JMTG035N04L	PDFN5x6-8L	SuperSO8	N	40	100.0	1.5	2.2	2.9	3.2	4.5	-	-	±20	196.0	6,857	495.0	322.0	89.0	196
JMTG035N04A	PDFN5x6-8L	SuperSO8	N	40	100.0	2.8	2.7	3.5	-	-	-	-	±25	272.0	4,900	528.0	317.0	89.0	240
JMTE035N04A	TO-263-3L	D <sup>2</sup> PAK	N	40	150.0	2.8	3.0	4.0	-	-	-	-	±25	272.0	4,900	528.0	317.0	80.0	240
JMTC035N04A	TO-220C-3L	TO-220	N	40	150.0	2.8	3.0	4.0	-	-	-	-	±25	256.0	4,900	528.0	317.0	80.0	240
JMTK4004A	TO-252-3L	DPAK	N	40	120.0	1.6	3.3	4.3	5.4	7.5	-	-	±20	160.0	5,595	411.0	340.0	65.0	215
JMTC4004A	TO-220C-3L	TO-220	N	40	120.0	1.6	3.4	4.5	4.5	6.5	-	-	±20	148.0	5,595	411.0	340.0	65.0	221
JMTK4005A	TO-252-3L	DPAK	N	40	80.0	1.9	3.8	4.9	5.7	7.4	-	-	±20	156.0	3,778	267.0	224.0	73.0	277
JMTG055N04A	PDFN5x6-8L	PDFN5x6-8L	N	40	75.0	1.9	3.8	4.9	5.8	7.5	-	-	±20	156.0	3,778	267.0	224.0	73.0	277
JMTQ055N04A	PDFN3x3-8L	PQFN 3x3	N	40	70.0	1.9	4.3	5.6	6.4	8.3	-	-	±20	144.0	3,778	267.0	224.0	73.0	314
JMTK4006A	TO-252-3L	DPAK	N	40	70.0	1.5	4.8	6.2	7.2	11.0	-	-	±20	96.0	2,956	225.0	197.0	57.0	274
JMTG062N04D	PDFN5x6-8L-D	-	N+N	40	55.0	1.6	6.2	7.8	8.0	10.4	-	-	±20	100.0	2,852	422.0	140.0	55.0	341
JMTG080N04D	PDFN5x6-8L	SuperSO8	N+N	40	45.0	1.5	7.0	9.0	9.0	13.0	-	-	±20	42.0	2,400	192.0	165.0	45.0	315
JMTQ062N04A	PDFN3x3-8L	PQFN 3x3	N	40	50.0	1.6	4.5	6.0	6.5	9.0	-	-	±20	56.0	2,820	241.0	201.0	20.0	90
JMTI60N04A	TO-251-3L	DPAK3	N	40	60.0	1.7	5.5	7.0	9.0	12.0	-	-	±20	81.0	2,400	192.0	165.0	37.0	204
JMTK60N04B	TO-252-3L	DPAK	N	40	60.0	1.7	5.5	7.0	9.0	12.0	-	-	±20	81.0	2,400	192.0	165.0	45.0	248
JMTQ60N04B	PDFN3x3-8L	PQFN 3x3	N	40	40.0	1.9	6.6	8.6	8.9	11.6	-	-	±20	72.0	2,443	167.0	138.0	48.0	317
JMTG100N04A	PDFN5x6-8L	SuperSO8	N	40	40.0	1.5	8.0	10.0	10.0	14.0	-	-	±20	42.0	1,639	148.0	122.0	16.0	128
JMTG60N04B	PDFN5x6-8L	SuperSO8	N	40	50.0	1.9	6.1	7.9	8.6	11.2	-	-	±20	81.0	2,443	167.0	138.0	48.0	293
JMTC60N04B	TO-220C-3L	TO-220	N	40	60.0	1.7	5.9	7.7	9.3	14.0	-	-	±20	81.0	2,400	192.0	165.0	37.0	218
JMTQ130N04D	PDFN3x3-8L-D	-	N+N	40	20.0	1.6	13.0	17.0	16.0	22.0	-	-	±20	25.0	1,250	114.0	85.0	20.0	260
JMTP080N04A	SOP-8	SOP-8	N	40	15.0	1.5	7.0	9.0	10.4	14.0	-	-	±20	81.0	2,400	192.0	165.0	20.0	140
JMTP080N04D	SOP-8	SOP-8	N+N	40	13.0	1.5	9.6	12.5	13.0	18.0	-	-	±20	81.0	2,400	192.0	165.0	37.0	355
JMTQ100N04A	PDFN3x3-8L	PQFN 3x3	N	40	30.0	1.5	7.7	10.0	9.8	13.7	-	-	±20	36.0	1,639	148.0	122.0	5.1	39
JMTP130N04A	SOP-8	SOP-8	N	40	10.0	1.5	11.0	14.3	14.0	19.6	-	-	±20	6.8	1,250	114.0	85.0	20.0	220
JMTM170N04A	SOT-23-6L	-	N	40	8.0	1.5	17.5	22.5	21.5	30.0	-	-	±20	-	980	86.2	68.5	11.0	193
JMTP400N04A	SOP-8	SOP-8	N	40	6.0	1.5	28.0	37.0	37.0	52.0	-	-	±20	-	435	58.0	35.0	11.0	308
JMTL400N04A	SOT-23	SOT-23	N	40	5.0	1.5	30.0	40.0	40.0	60.0	-	-	±20	-	435	58.0	35.0	11.0	330
JMTC035N06D	TO-220C-3L	TO-220	N	60	180.0	3.0	3.3	4.3	-	-	-	-	±20	324.0	7,636	577.0	488.0	138.0	455
JMTE035N06D	TO-263-3L	D <sup>2</sup> PAK	N	60	180.0	3.0	2.9	3.8	-	-	-	-	±20	324.0	7,660	642.0	620.0	138.0	400
JMTC060N06A	TO-220C-3L	TO-220	N	60	120.0	3.0	4.6	6.0	-	-	-	-	±25	400.0	5,672	392.0	352.0	103.0	474

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(N),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>res,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMTK060N06A	TO-252-3L	DPAK	N	60	120.0	3.0	4.5	5.9	-	-	-	-	±25	225.0	5,672	392.0	352.0	103.0	464
JMTE060N06A	TO-263-3L	D <sup>2</sup> PAK	N	60	120.0	3.0	4.6	6.0	-	-	-	-	±25	400.0	5,672	392.0	372.0	80.0	368
JMTG060N06A	PDFN5x6-8L	SuperSO8	N	60	90.0	3.0	3.9	4.9	-	-	-	-	±25	210.0	5,672	392.0	352.0	103.0	402
JMTK80N06A	TO-252-3L	DPAK	N	60	80.0	3.0	5.3	6.6	-	-	-	-	±20	182.0	3,782	297.0	218.0	77.0	408
JMTC80N06A	TO-220C-3L	TO-220	N	60	80.0	3.0	5.3	7.0	-	-	-	-	±20	169.0	4,136	286.0	257.0	90.0	477
JMTG070N06A	PDFN5x6-8L	SuperSO8	N	60	70.0	3.0	4.6	5.8	-	-	-	-	±20	182.0	3,782	297.0	218.0	77.0	354
JMTP075N06A	SOP-8	SOP-8	N	60	17.0	1.7	6.7	9.0	8.5	12.0	-	-	±20	140.0	6,276	300.0	262.0	77.0	516
JMTG100N06A	PDFN5x6-8L	SuperSO8	N	60	55.0	1.7	7.5	9.4	10.0	13.0	-	-	±20	121.0	4,605	215.0	191.0	77.0	578
JMTG100N06D	PDFN5x6-8L-D	-	N+N	60	50.0	1.7	9.5	12.0	11.5	16.0	-	-	±20	100.0	4,605	215.0	191.0	77.0	732
JMTC58N06B	TO-220C-3L	TO-220	N	60	58.0	1.7	7.5	10.0	10.0	14.0	-	-	±20	121.0	4,605	215.0	191.0	77.0	578
JMTK58N06B	TO-252-3L	DPAK	N	60	58.0	1.7	7.5	10.0	10.0	14.0	-	-	±20	110.0	4,400	210.0	190.0	77.0	578
JMTP110N06A	SOP-8	SOP-8	N	60	12.0	1.7	9.5	12.0	12.0	17.0	-	-	±20	121.0	4,605	215.0	191.0	77.0	732
JMTP110N06D	SOP-8	SOP-8	N+N	60	11.0	1.7	11.0	14.0	13.0	18.0	-	-	±20	81.0	4,605	215.0	191.0	77.0	847
JMTK110N06A	TO-252-3L	DPAK	N	60	55.0	3.0	8.0	10.0	-	-	-	-	±25	100.0	2,065	173.0	156.0	44.0	352
JMTK50N06B	TO-252-3L	DPAK	N	60	50.0	1.6	12.0	15.0	16.0	21.0	-	-	±20	81.0	2,030	130.0	115.0	45.0	540
JMTI50N06B	TO-251-3L	DPAK3	N	60	50.0	1.6	12.0	17.0	16.0	25.0	-	-	±20	64.0	2,900	140.0	124.0	50.0	600
JMTQ35N06A	PDFN3x3-8L	PQFN 3x3	N	60	35.0	1.6	12.0	15.0	15.0	20.0	-	-	±20	64.0	2,030	130.0	115.0	45.0	540
JMTG170N06A	PDFN5x6-8L	SuperSO8	N	60	40.0	1.6	12.0	15.0	16.0	21.0	-	-	±20	72.0	2,030	130.0	115.0	45.0	540
JMTP170N06A	SOP-8	SOP-8	N	60	10.0	1.7	12.7	15.9	16.3	21.2	-	-	±20	64.0	2,030	130.0	115.0	46.0	584
JMTP170N06D	SOP-8	SOP-8	N+N	60	9.2	1.6	16.3	20.4	18.8	24.4	-	-	±20	64.0	2,030	130.0	115.0	46.0	750
JMTK290N06A	TO-252-3L	DPAK	N	60	30.0	1.6	21.0	29.0	28.0	40.0	-	-	±20	23.0	1,488	72.0	64.0	25.0	525
JMTI290N06A	TO-251-3L	DPAK3	N	60	20.0	1.6	21.0	29.0	28.0	40.0	-	-	±20	20.0	1,562	75.4	66.8	25.0	525
JMTK330N06A	TO-252-3L	DPAK	N	60	20.0	1.6	26.0	33.0	33.0	45.0	-	-	±20	18.0	1,148	58.5	49.4	20.3	528
JMTY2310A	SOT-223-3L	SOT-223	N	60	5.0	1.5	75.0	100.0	87.0	125.0	-	-	±20	4.0	350	29.0	23.0	9.0	675
JMTP330N06D	SOP-8	SOP-8	N+N	60	5.0	1.6	30.0	38.0	36.0	47.0	-	-	±20	20.0	853	60.0	29.0	20.0	600
JMTK480N06A	TO-252-3L	DPAK	N	60	15.0	1.6	38.0	49.0	45.0	63.0	-	-	±20	9.3	825	79.0	41.0	20.3	771
JMTM2310A	SOT-23-6L	-	N	60	3.0	1.4	74.0	100.0	85.0	120.0	-	-	±20	-	350	29.0	23.0	9.0	666
JMTN2310A	SOT-89-3L	-	N	60	3.0	1.5	71.0	92.0	85.0	119.0	-	-	±20	-	350	29.0	23.0	6.0	426
JMTL2310A	SOT-23	SOT-23	N	60	3.0	1.5	75.0	100.0	85.0	120.0	-	-	±20	-	330	90.0	17.0	9.0	675
JMTL2N7002KS	SOT-23	SOT-23	N	60	0.3	1.6	1,690.0	2,200.0	2,050.0	2,870.0	-	-	±20	-	28	11.0	4.0	1.7	2,873
JMTLA2N7002KS	SOT-323-3L	-	N	60	0.2	1.6	1,600.0	2,100.0	1,900.0	2,700.0	-	-	±20	-	28	11.0	4.0	1.7	2,720
JMTLB2N7002KDS	SOT-363-6L	-	N+N	60	0.2	1.6	1,600.0	2,100.0	1,900.0	2,700.0	-	-	±20	-	28	11.0	4.0	1.7	2,720
JMTD2N7002KS	DFN1006-3L	-	N	60	0.2	1.6	1,660.0	2,200.0	2,000.0	2,800.0	-	-	±20	-	28	11.0	4.0	1.7	2,822
JMTE070N07A	TO-263-3L	D <sup>2</sup> PAK	N	68	120.0	3.0	5.8	7.5	-	-	-	-	±20	210.0	4,903	361.0	270.0	49.0	284
JMTK70N07A	TO-252-3L	DPAK	N	68	80.0	3.0	6.6	8.6	-	-	-	-	±20	121.0	4,062	461.0	231.0	35.0	231
JMTC6888A	TO-220C-3L	TO-220	N	68	80.0	3.0	7.5	9.0	-	-	-	-	±20	110.0	4,000	267.0	250.0	35.0	263
JMTE6888A	TO-263-3L	D <sup>2</sup> PAK	N	68	80.0	3.0	7.5	9.0	-	-	-	-	±20	110.0	4,000	267.0	250.0	35.0	263
JMTK170N10A	TO-252-3L	DPAK	N	100	59.0	3.0	15.0	20.0	-	-	-	-	±25	98.0	5,211	232.0	163.0	87.0	1,305
JMTC170N10A	TO-220C-3L	TO-220	N	100	59.0	3.0	15.0	20.0	-	-	-	-	±25	108.0	5,191	239.0	164.0	94.0	1,410
JMTK320N10A	TO-252-3L	DPAK	N	100	30.0	1.5	24.0	30.0	26.0	34.0	-	-	±20	56.0	3,858	127.0	110.0	66.0	1,584



Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(ON)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>iss_Typ</sub> (pF)	Q <sub>s_Typ</sub> (nC)	FOM
JMTI320N10A	TO-251-3L	DKAK3	N	100	30.0	1.5	24.0	32.0	26.0	36.0	-	-	±20	52.6	3,217	126.0	113.0	23.0	552
JMTC320N10A	TO-220C-3L	TO-220	N	100	30.0	1.5	24.0	32.0	26.0	36.0	-	-	±20	52.6	3,217	126.0	113.0	23.0	552
JMTG320N10A	PDFN5x6-8L	SuperSO8	N	100	28.0	1.5	24.0	30.0	26.0	33.8	-	-	±20	52.6	3,217	126.0	113.0	23.0	552
JMTQ320N10A	PDFN3x3-8L	PQFN 3x3	N	100	23.0	1.5	24.0	32.0	26.0	36.0	-	-	±20	52.6	3,217	126.0	113.0	23.0	552
JMTK500N10A	TO-252-3L	DPAK	N	100	20.0	1.5	37.0	48.0	39.0	55.0	-	-	±20	30.0	1,964	90.0	74.0	20.0	740
JMTK10N10A	TO-252-3L	DPAK	N	100	10.0	1.5	86.0	108.0	96.0	125.0	-	-	±20	6.0	847	40.0	12.0	20.0	1,720
JMTI10N10A	TO-251-3L	DKAK3	N	100	10.0	1.5	86.0	110.0	96.0	140.0	-	-	±20	4.4	765	38.0	33.0	12.0	1,032
JMTQ11DN10A	PDFN3x3-8L	PQFN 3x3	N	100	10.0	1.5	92.0	120.0	98.0	137.0	-	-	±20	3.8	765	38.0	33.0	12.0	1,104
JMTJ11DN10A	SOT-23-3L	-	N	100	3.0	1.5	92.0	115.0	98.0	127.0	-	-	±20	-	847	40.0	12.0	20.0	1,840
JMTN11DN10A	SOT-89-3L	-	N	100	3.0	1.5	95.0	125.0	100.0	140.0	-	-	±20	-	765	38.0	33.0	18.0	1,710
JMTP11DN10A	SOP-8	SOP-8	N	100	3.0	1.5	88.0	115.0	100.0	140.0	-	-	±20	4.0	610	40.0	25.0	12.0	1,056
JMTY11DN10A	SOT-223-3L	SOT-223	N	100	5.0	1.5	96.0	125.0	105.0	147.0	-	-	±20	4.0	610	40.0	25.0	12.0	1,152
JMTL3N10A	SOT-23	SOT-23	N	100	2.2	1.5	220.0	286.0	223.0	312.0	-	-	±20	-	321	21.0	15.0	5.3	1,166
JMTG28DN10D	PDFN5x6-8L	SuperSO8	N+N	100	4.5	1.5	225.0	295.0	235.0	330.0	-	-	±20	0.6	321	21.0	15.0	5.3	1,193
JMTM300C02D	SOT-23-6L	-	N+P	20	3.8	0.7	-	-	20.0	28.0	25.0	38.0	±12	-	358	69.3	58.5	5.6	-
				-20	-2.8	-0.7	-	-	50.0	65.0	63.0	88.0			503	67.0	58.0		
JMTG075C03D	PDFN5x6-8L	SuperSO8	N+P	30	15.0	1.5	8.8	10.0	13.6	15.0	-	-	±20	39.0	1,116	187.0	152.0	13.3	117
				-30	-10.0	-1.6	21.0	25.0	31.0	40.0	-	-		36.0	1,240	151.0	138.0		279
JMTG100C03D	PDFN5x6-8L-D	-	N+P	30	12.0	1.5	9.6	13.0	13.7	17.0	-	-	±20	33.0	1,011	142.0	119.0	13.3	128
				-30	-10.0	-1.6	21.0	25.0	31.0	40.0	-	-		36.0	1,240	151.0	138.0		279
JMTQ120C03D	PDFN3x3-8L-D	-	N+P	30	11.0	1.5	12.0	16.0	18.0	25.0	-	-	±20	20.0	584	112.0	96.0	15.0	180
				-30	-11.0	-1.6	21.0	27.0	31.0	43.0	-	-		25.0	1,200	155.0	139.0	52.0	1,092
JMTG200C03D	PDFN5x6-8L-D	-	N+P	30	11.0	1.5	13.0	17.0	20.0	28.0	-	-	±20	9.0	490	79.0	61.0	10.0	130
				-30	-11.0	-1.5	16.0	21.0	23.0	32.0	-	-		30.0	1,432	186.0	147.0		160
JMTP240C03D	SOP-8	-	N+P	30	9.0	1.5	16.0	21.0	24.0	33.0	-	-	±20	12.0	490	79.0	61.0	5.2	83
				-30	-7.0	-1.5	27.0	35.0	38.0	54.0	-	-		30.0	982	135.0	109.0		140
JMTQ240C03D	PDFN3x3-8L-D	-	N+P	30	10.0	1.5	14.0	18.0	20.0	28.0	-	-	±20	11.0	490	79.0	61.0	5.2	73
				-30	-8.0	-1.6	24.0	31.0	35.0	49.0	-	-		23.0	982	135.0	109.0	10.0	240
JMTG120C03D	PDFN5x6-8L-D	-	N+P	30	11.5	1.4	9.0	12.0	13.5	19.0	-	-	±20	20.0	584	112.0	96.0	52.0	468
				-30	-11.5	-1.5	18.5	24.0	28.0	39.0	-	-		25.0	1,200	155.0	139.0	52.0	962
JMTP120C03D	SOP-8	SOP-8	N+P	30	10.0	1.4	10.0	13.0	15.0	20.0	-	-	±20	17.0	584	112.0	96.0	15.0	150
				-30	-12.0	-1.5	19.0	25.0	27.0	35.0	-	-		24.0	1,200	155.0	139.0		285
JMTQ250C03D	PDFN3x3-8L-D	-	N+P	30	9.0	1.5	16.0	21.0	25.0	35.0	-	-	±20	12.0	490	79.0	61.0	5.2	83
				-30	-5.0	-1.6	40.0	52.0	64.0	90.0	-	-		12.0	580	98.0	74.0	6.8	272
JMTQ380C03D	PDFN3x3-8L-D	-	N+P	30	6.0	1.5	28.0	36.0	40.0	56.0	-	-	±20	5.1	233	44.0	33.0	3.0	84
				-30	-5.0	-1.6	38.0	50.0	56.0	78.0	-	-		11.0	580	98.0	74.0	6.8	258
JMTP170C04D	SOP-8	SOP-8	N+P	40	10.0	1.5	15.0	20.0	19.0	27.0	-	-	±20	19.0	980	86.2	68.5	11.0	165
				-40	-10.0	-1.6	34.0	44.0	46.0	62.0	-	-		27.5	1,034	107.0	79.5		374
JMTG170C04D	PDFN5x6-8L-D	-	N+P	40	16.0	1.5	16.0	20.0	22.0	29.0	-	-	±20	30.0	980	86.2	68.5	11.0	176
				-40	-16.0	-1.6	40.0	50.0	50.0	65.0	-	-		42.0	1,034	107.0	79.5	20.0	800

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(H),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>res,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMTQ170C04D	PDFN3x3-8L-D	-	N+P	40	14.0	1.5	16.0	22.0	20.0	28.0	-	-	±20	16.0	980	86.2	68.5	11.0	176
				-40	-14.0	-1.6	38.0	50.0	50.0	70.0	-	-	±20	25.0	1,034	107.0	79.5	20.0	760
JMTP230C04D	SOP-8	SOP-8	N+P	40	8.0	1.5	17.0	22.0	25.0	35.0	-	-	±20	13.0	633	67.0	58.0	12.0	204
				-40	-6.0	-1.6	41.0	53.0	58.0	81.0	-	-	±20	17.6	860	87.0	70.0	492	
JMGE540P10A	TO-263-3L	D <sup>2</sup> PAK	P	-100	-35.0	-1.6	36.0	47.0	41.0	57.0	-	-	±20	90.0	2,120	194.0	13.0	34.0	1,224
JMGK540P10A	TO-252-3L	DPAK	P	-100	-35.0	-1.6	40.0	52.0	44.0	62.0	-	-	±20	87.0	2,120	194.0	13.0	40.0	1,600
JMGC540P10A	TO-220C-3L	TO-220	P	-100	-35.0	-1.6	41.0	53.0	46.0	64.0	-	-	±20	82.0	2,120	194.0	13.0	40.0	1,640
JMGG540P10A	PDFN5x6-8L	SuperSO8	P	-100	-25.0	1.5	37.0	50.0	41.0	60.0	-	-	±20	81.0	2,120	194.0	13.0	40.0	1,480
JMPL0622AK	TO-252-3L	DPAK	P	-60	-46.0	-2.0	19.8	25.0	34.0	44.0	-	-	±20	182.0	1,713	302.0	13.5	26.0	515
JMPL0648AK	TO-252-3L	DPAK	P	-60	-23.0	-2.0	40.0	50.0	55.0	72.0	-	-	±20	75.0	855	189.0	9.5	13.5	540
JMPL0648AG	PDFN5x6-8L	SuperSO8	P	-60	-24.0	-2.0	40.0	50.0	55.0	72.0	-	-	±20	75.0	855	189.0	9.5	13.5	540
JMPL0648AU	PDFN3x3-8L	PQFN 3x3	P	-60	-22.0	-2.0	40.0	50.0	55.0	72.0	-	-	±20	75.0	855	189.0	9.5	13.5	540
JMPL1025AE	TO-263-3L	D <sup>2</sup> PAK	P	-100	-49.0	-2.0	21.0	25.0	29.0	38.0	-	-	±20	304.0	2,525	427.0	32.0	37.0	777
JMPL1025AK	TO-252-3L	DPAK	P	-100	-46.0	-2.0	22.0	28.0	31.0	40.0	-	-	±20	304.0	2,525	427.0	32.0	37.0	814
JMPL1050AG	PDFN5x6-8L	SuperSO8	P	-100	-27.0	-2.0	36.0	50.0	48.0	65.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	720
JMPL1050AE	TO-263-3L	D <sup>2</sup> PAK	P	-100	-36.0	-2.0	36.0	50.0	50.0	66.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	720
JMPL1050APD	SOP-8L	SOP-8	P	-100	-6.6	-2.0	39.0	50.0	57.0	70.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	780
JMPL1050AU	PDFN3x3-8L	PQFN 3x3	P	-100	-26.0	-2.0	38.0	50.0	51.0	66.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	760
JMPL1050AK	TO-252-3L	DPAK	P	-100	-30.0	-2.0	37.0	50.0	50.0	66.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	740
JMPL1050AY	SOT-223-3L	SOT-223	P	-100	-9.7	-2.0	40.0	52.0	53.0	68.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	800
JMPL1050AP	SOP-8	SOP-8	P	-100	-6.3	-2.0	36.0	50.0	57.0	70.0	-	-	±20	109.0	1,412	222.0	2.6	20.0	720
JMSL030SAG	PDFN5x6-8L	SuperSO8	N	30	327.0	1.7	0.55	0.69	0.80	0.99	-	-	±20	342.0	7,543	5,253.0	422.0	120.0	66
JMSL0301AG	PDFN5x6-8L	SuperSO8	N	30	245.0	1.7	0.85	1.10	1.30	1.70	-	-	±20	205.0	4,185	2,860.0	233.0	64.0	54
JMSL0302AK	TO-252-3L	DPAK	N	30	161.0	1.6	1.7	2.2	2.2	2.9	-	-	±20	205.0	4,185	2,861.0	233.0	64.0	109
JMSL0302AG	PDFN5x6-8L	SuperSO8	N	30	178.0	1.7	1.3	1.6	2.0	2.9	-	-	±20	101.0	2,975	2,650.0	117.0	39.0	51
JMSL0302AU	PDFN3x3-8L	PQFN 3x3	N	30	145.0	1.7	1.2	1.5	2.0	2.9	-	-	±20	101.0	2,975	2,650.0	117.0	39.0	47
JMSL0302BG	PDFN5x6-8L	SuperSO8	N	30	152.0	1.6	1.5	2.0	2.1	2.9	-	-	±20	94.0	2,526	1,924.0	186.0	40.0	60
JMSL0302BU	PDFN3x3-8L	PQFN 3x3	N	30	135.0	1.6	1.5	1.9	2.2	2.8	-	-	±20	94.0	2,526	1,924.0	186.0	40.0	60
JMSL0302DG	PDFN5x6-8L	SuperSO8	N	30	174.0	1.7	1.3	1.65	2.1	2.9	-	-	±20	118.0	2,628	1,298.0	64.0	44.0	57
JMSL0303AG	PDFN5x6-8L	SuperSO8	N	30	136.0	1.6	1.7	2.2	2.4	3.2	-	-	±20	61.0	2,091	1,539.0	147.0	32.0	54
JMSL0303AK	TO-252-3L	DPAK	N	30	118.0	1.6	2.7	3.5	3.5	4.5	-	-	±20	94.0	2,526	1,924.0	186.0	40.0	108
JMSL0303AU	PDFN3x3-8L	PQFN 3x3	N	30	119.0	1.6	1.8	2.2	2.7	3.5	-	-	±20	61.0	2,091	1,539.0	147.0	32.0	58
JMSL0307AG	PDFN5x6-8L	SuperSO8	N	30	65.0	1.7	3.8	4.8	5.8	7.5	-	-	±20	20.0	866	739.0	54.0	13.5	51
JMSL0310AU	PDFN3x3-8L	PQFN 3x3	N	30	60.0	1.7	4.0	5.0	6.0	8.0	-	-	±20	20.0	866	739.0	54.0	13.5	54
JMSL0307AV	DFN2020-6L	PQFN 2x2	N	30	29.0	1.6	3.7	4.8	5.3	7.0	-	-	±20	20.0	866	739.0	54.0	13.5	50
JMSL0315AU	PDFN3x3-8L	PQFN 3x3	N	30	43.0	1.7	7.0	8.8	10.6	13.8	-	-	±20	8.5	468	363.0	41.0	7.7	54

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th),Typ</sub> (V)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>rrs,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMSL0315AG	PDFN5x6-8L	SuperSO8	N	30	44.0	1.7	7.0	8.8	10.0	13.0	-	-	±20	5.0	468	363.0	41.0	7.7	54
JMSL0315AK	TO-252-3L	DPAK	N	30	41.0	1.7	9.5	11.8	13.0	15.9	-	-	±20	5.0	468	363.0	41.0	7.7	73
JMSL0315AP	SOP-8	SOP-8	N	30	14.0	1.6	8.2	10.0	11.4	15.0	-	-	±20	6.0	468	363.0	41.0	7.7	63
JMSL0315AV	DFN2020-6L	PQFN 2x2	N	30	22.0	1.6	7.2	9.0	10.5	13.6	-	-	±20	8.5	468	363.0	41.0	7.7	55
JMSL0315AGD	PDFN5x6-8L-D	-	N+N	30	37.0	1.7	7.5	9.5	10.5	14.0	-	-	±20	5.0	468	363.0	41.0	7.7	58
JMSL0315AUD	PDFN3x3-8L-D	-	N+N	30	36.0	1.7	8.8	11.0	12.4	16.0	-	-	±20	8.5	468	363.0	41.0	7.7	68
JMSL0315APD	SOP-8	SOP-8	N+N	30	12.4	1.6	9.5	12.0	12.3	15.6	-	-	±20	6.1	468	363.0	41.0	7.7	73
JMSL0315ARD	W-DFN3030-8L	-	N+N	30	37.0	1.7	6.5	8.5	10.0	13.0	-	-	±20	8.5	469	363.0	41.0	7.7	50
JMSL040SAG	PDFN5x6-8L	SuperSO8	N	40	349.0	1.5	0.6	0.8	0.8	1.0	-	-	±20	506.0	7,622	4,052.0	184.0	116.0	67
JMGG010V04A	PDFN5x6-8L	SuperSO8	N	40	200.0	1.5	0.7	1.0	1.1	1.6	-	-	±20	420.0	7,400	1,930.0	110.0	125.0	91
JMSH040SAG	PDFN5x6-8L	SuperSO8	N	40	400.0	2.8	0.56	0.68	-	-	-	-	±20	864.0	7,445	5,755.0	282.0	107.0	60
JMSL0401BG	PDFN5x6-8L	SuperSO8	N	40	243.0	1.5	0.83	1.0	1.2	1.6	-	-	±20	317.0	5,490	3,080.0	125.0	82.0	68
JMSH0401BG	PDFN5x6-8L	SuperSO8	N	40	265.0	2.8	0.90	1.1	-	-	-	-	±20	441.0	5,280	3,405.0	71.0	68.0	61
JMSH0401ATL	PowerJE*10x12	TOLL	N	40	336.0	2.5	1.0	1.3	-	-	-	-	±20	317.0	5,978	3,004.0	114.0	89.0	89
JMSH0401AG	PDFN5x6-8L	SuperSO8	N	40	182.0	2.5	1.3	1.7	-	-	-	-	±20	194.0	3,015	2,000.0	18.0	42.0	55
JMSL0401AG	PDFN5x6-8L	SuperSO8	N	40	189.0	1.5	1.3	1.7	1.7	2.3	-	-	±20	163.0	3,133	1,993.0	75.0	46.0	60
JMSH0401CG	PDFN5x6-8L	SuperSO8	N	40	240.0	2.8	1.1	1.4	-	-	-	-	±20	600.0	5,304	3,832.0	78.0	71.0	78
JMSL0402AG	PDFN5x6-8L	SuperSO8	N	40	168.0	1.5	1.6	2.0	2.2	3.0	-	-	±20	163.0	3,133	1,993.0	75.0	46.0	74
JMSL0402AK	TO-252-3L	DPAK	N	40	150.0	1.5	1.8	2.2	2.2	3.0	-	-	±20	163.0	3,133	1,993.0	75.0	46.0	83
JMSL0402BG	PDFN5x6-8L	SuperSO8	N	40	130.0	1.5	1.9	2.5	2.5	3.4	-	-	±20	126.0	2,131	1,538.0	95.0	36.0	68
JMGG020V04A	PDFN5x6-8L	SuperSO8	N	40	140.0	1.5	1.9	2.5	2.7	4.8	-	-	±20	125.0	3,162	1,099.0	157.0	42.0	80
JMSL0402AU	PDFN3x3-8L	PQFN 3x3	N	40	119.0	1.5	2.0	2.5	2.7	3.5	-	-	±20	126.0	2,131	1,538.0	95.0	36.0	72
JMSL0403AG	PDFN5x6-8L	SuperSO8	N	40	109.0	1.5	2.5	3.1	3.3	4.5	-	-	±20	79.0	1,424	927.0	48.0	22.0	55
JMSL0403AU	PDFN3x3-8L	PQFN 3x3	N	40	99.0	1.6	2.5	3.1	3.5	4.6	-	-	±20	79.0	1,424	927.0	48.0	22.0	55
JMGK020V04A	TO-252-3L	DPAK	N	40	160.0	1.5	2.5	3.3	3.5	4.9	-	-	±20	182.0	3,162	1,099.0	157.0	42.0	105
JMSL0406AG	PDFN5x6-8L	SuperSO8	N	40	70.0	1.7	4.2	5.2	5.8	7.6	-	-	±20	36.0	1,204	536.0	51.0	17.9	75
JMSL0406AGD	PDFN5x6-8L-D	-	N+N	40	43.0	1.7	5.7	6.9	7.2	9.5	-	-	±20	22.0	1,227	526.0	55.0	19.4	111
JMSL0406AK	TO-252-3L	DPAK	N	40	73.0	1.7	4.5	5.4	6.2	7.8	-	-	±20	36.0	1,204	536.0	51.0	17.9	81
JMSL0406AU	PDFN3x3-8L	PQFN 3x3	N	40	55.0	1.7	4.5	5.6	5.9	7.8	-	-	±20	36.0	1,204	536.0	51.0	17.9	81
JMSL0406AP	SOP-8	SOP-8	N	40	17.8	1.7	4.8	6.0	6.0	7.8	-	-	±20	36.0	1,204	536.0	51.0	17.9	86
JMSH0406AG	PDFN5x6-8L	SuperSO8	N	40	86.0	2.8	4.1	5.1	-	-	-	-	±20	96.0	1,027	662.0	105.0	14.9	61
JMSL0601AG	PDFN5x6-8L	SuperSO8	N	60	275.0	1.5	0.90	1.20	1.30	1.70	-	-	±20	480.0	6,338	2,157.0	34.0	102.0	92
JMSH0601AG	PDFN5x6-8L	SuperSO8	N	60	197.0	3.0	1.4	1.8	-	-	-	-	±20	375.0	6,035	1,365.0	35.0	78.0	109
JMSH0601ATL	PowerJE*10x12	TOLL	N	60	348.0	2.8	1.2	1.6	-	-	-	-	±20	480.0	7,312	2,239.0	53.0	102.0	122

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(N)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>res,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMSH0601BG	PDFN5x6-8L	SuperSO8	N	60	303.0	2.8	1.0	1.3	-	-	-	-	±20	1,014.0	7,219	1,841.0	47.0	102.0	102
JMSH0602AC	TO-220-3L	TO-220	N	60	195.0	3.0	1.8	2.3	-	-	-	-	±20	375.0	6,035	1,365.0	35.0	78.0	140
JMSH0602AE	TO-263-3L	D <sup>2</sup> AK	N	60	195.0	3.0	2.0	2.5	-	-	-	-	±20	375.0	6,035	1,365.0	35.0	78.0	156
JMSH0602AK	TO-252-3L	DPAK	N	60	195.0	3.0	2.2	2.8	-	-	-	-	±20	600.0	6,240	3,779.0	247.0	81.0	178
JMSL0601BG	PDFN5x6-8L	SuperSO8	N	60	226.0	1.6	1.8	2.4	-	-	-	-	±20	375.0	4,685	1,429.0	40.0	75.0	135
JMSH0602AG	PDFN5x6-8L	SuperSO8	N	60	151.0	2.8	1.9	2.4	-	-	-	-	±20	240.0	3,562	896.0	43.0	50.0	95
JMSL0602AG	PDFN5x6-8L	SuperSO8	N	60	147.0	1.7	1.9	2.5	2.5	3.5	-	-	±20	240.0	2,880	958.0	44.0	48.0	91
JMSH0603AK	TO-252-3L	DPAK	N	60	145.0	2.8	2.6	3.3	-	-	-	-	±20	338.0	2,312	1,654.0	180.0	51.0	133
JMSL0603AK	TO-252-3L	DPAK	N	60	145.0	1.6	2.6	3.3	3.3	4.3	-	-	±20	338.0	2,764	1,039.0	39.0	49.0	127
JMSL0603BG	PDFN5x6-8L	SuperSO8	N	60	142.0	1.6	2.4	3.0	3.4	4.4	-	-	±20	338.0	3,174	872.0	39.0	51.0	122
JMGG031V06A	PDFN5x6-8L	SuperSO8	N	60	160.0	3.0	2.3	3.0	-	-	-	-	±25	196.0	3,383	1,940.0	118.0	46.0	106
JMSL0604AG	PDFN5x6-8L	SuperSO8	N	60	98.0	1.8	3.9	4.9	5.0	6.3	-	-	±20	109.0	2,030	445.0	4.4	32.0	125
JMSL0605AGD	PDFN5x6-8L-D	-	N	60	59.0	1.6	4.4	5.5	5.6	7.3	-	-	±20	182.0	1,966	596.0	36.0	33.0	145
JMSH0605AGD	PDFN5x6-8L-D	-	N+N	60	54.0	2.8	4.7	5.8	-	-	-	-	±20	216.0	1,492	940.0	109.0	34.0	160
JMSH0606AG	PDFN5x6-8L	SuperSO8	N	60	98.0	2.9	3.7	4.7	-	-	-	-	±20	216.0	1,492	940.0	109.0	34.0	126
JMSL0606AG	PDFN5x6-8L	SuperSO8	N	60	97.0	1.8	4.0	5.0	5.2	6.5	-	-	±20	76.0	2,030	445.0	4.4	32.0	128
JMSL0606AGD	PDFN5x6-8L-D	-	N+N	60	55.0	1.8	6.4	7.8	7.6	9.7	-	-	±20	76.0	2,030	445.0	4.4	32.0	205
JMSL0606AU	PDFN3x3-8L	PQFN 3x3	N	60	52.0	1.5	5.0	6.2	6.6	8.3	-	-	±20	80.0	2,122	440.0	4.4	31.0	155
JMSL0606AC	TO-220-3L	TO-220	N	60	115.0	1.8	5.2	6.3	7.0	8.8	-	-	±20	80.0	2,030	445.0	4.4	32.0	166
JMSL0606AE	TO-263-3L	D <sup>2</sup> PAK	N	60	115.0	1.8	5.2	6.3	7.0	8.8	-	-	±20	80.0	2,030	445.0	4.4	32.0	166
JMSL0606AP	SOP-8	SOP-8	N	60	15.3	1.8	5.3	6.4	6.7	8.4	-	-	±20	80.0	2,030	445.0	4.4	32.0	170
JMSL0609APD	SOP-8	SOP-8	N+N	60	10.0	1.7	7.0	9.2	9.5	12.5	-	-	±20	80.0	2,122	440.0	4.4	31.0	217
JMSL0606AK	TO-252-3L	DPAK	N	60	90.0	1.7	4.6	5.8	6.0	7.5	-	-	±20	51.0	2,122	440.0	4.4	31.0	143
JMSL0609AG	PDFN5x6-8L	SuperSO8	N	60	43.0	1.5	7.2	9.4	9.0	12.0	-	-	±20	34.0	1,087	309.0	8.5	16.6	120
JMSL0609AK	TO-252-3L	DPAK	N	60	56.0	1.6	7.4	9.4	9.5	12.4	-	-	±20	74.0	1,110	352.0	12.0	18.3	135
JMSL0610AGD	PDFN5x6-8L-D	-	N+N	60	35.0	1.5	8.5	10.6	10.2	13.0	-	-	±20	34.0	1,087	309.0	8.5	16.6	141
JMSL0609AU	PDFN3x3-8L	PQFN 3x3	N	60	39.0	1.5	7.5	9.4	9.4	12.2	-	-	±20	34.0	1,087	309.0	8.5	16.6	125
JMSL0609AP	SOP-8	SOP-8	N	60	13.6	1.7	7.5	9.5	9.5	12.5	-	-	±20	34.0	1,083	349.0	8.5	17.2	129
JMSL0613APD	SOP-8	SOP-8	N+N	60	10.2	1.7	10.5	13.5	12.5	16.5	-	-	±20	34.0	1,083	349.0	8.5	17.2	181
JMSL0612AG	PDFN5x6-8L	SuperSO8	N	60	34.0	1.6	9.5	12.0	12.0	16.0	-	-	±20	20.0	731	224.0	7.4	13.9	132
JMSL0612AU	PDFN3x3-8L	PQFN 3x3	N	60	38.0	1.6	10.0	12.5	12.3	16.0	-	-	±20	20.0	731	224.0	7.4	13.9	139
JMSL0612AK	TO-252-3L	DPAK	N	60	52.0	1.6	9.9	12.0	12.6	16.0	-	-	±20	20.0	731	224.0	7.4	13.9	138
JMSL0615AP	SOP-8	SOP-8	N	60	12.7	1.7	10.0	12.5	13.0	16.9	-	-	±20	20.0	731	224.0	7.4	13.9	139
JMSL0615APD	SOP-8	SOP-8	N+N	60	9.7	1.7	12.0	15.0	15.0	20.0	-	-	±20	20.0	731	224.0	7.4	13.9	167
JMSL0615AGD	PDFN5x6-8L-D	-	N+N	60	31.0	1.6	10.5	13.5	13.5	17.5	-	-	±20	20.0	731	224.0	7.4	13.9	146
JMSL0615AUD	PDFN3x3-8L-D	-	N+N	60	24.0	1.7	11.0	13.8	14.0	18.4	-	-	±20	26.0	731	224.0	7.4	13.9	153

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th),Typ</sub> (V)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>res,Typ</sub> (pF)	Q <sub>s,Typ</sub> (nC)	FOM
JMSL0615AV	DFN2020-6L	PQFN 2x2	N	60	21.0	1.6	9.8	12.8	12.5	16.3	-	-	±20	20.0	731	224.0	7.4	13.9	136
JMSL0620AGE	PDFN5x6-8L	SuperSO8	N	60	31.0	1.8	16.0	20.0	23.0	30.0	-	-	±20	26.0	409	143.0	24.0	7.5	120
JMSL0620AGDE	PDFN5x6-8L-D	-	N+N	60	23.0	1.8	18.0	23.0	25.0	33.0	-	-	±20	26.0	409	143.0	24.0	7.5	135
JMSL0620AUE	PDFN3x3-8L	PQFN 3x3	N	60	24.0	1.8	16.0	20.0	23.0	30.0	-	-	±20	26.0	409	143.0	24.0	7.5	120
JMSL0630AG	PDFN5x6-8L	SuperSO8	N	60	25.0	1.7	22.0	28.0	28.0	37.0	-	-	±20	13.5	288	92.0	22.0	5.8	128
JMSL0630AGD	PDFN5x6-8L-D	-	N+N	60	19.3	1.7	22.0	28.0	28.0	37.0	-	-	±20	13.5	288	92.0	22.0	5.8	128
JMSL0630AU	PDFN3x3-8L	PQFN 3x3	N	60	19.8	1.7	22.0	27.0	30.0	38.0	-	-	±20	13.5	288	92.0	22.0	5.8	128
JMSH0804DE	TO-263-3L	D <sup>2</sup> PAK	N	85	137.0	3.0	4.1	4.8	-	-	-	-	±20	180.0	4,562	738.0	15.9	71.0	291
JMSH0804DC	TO-220-3L	TO-220	N	85	144.0	3.0	4.3	4.9	-	-	-	-	±20	180.0	4,562	738.0	15.9	71.0	305
JMSH1001ATL	PowerJE*10x12	TOLL	N	100	411.0	2.8	1.3	1.6	-	-	-	-	±20	1,250.0	9,623	2,091.0	32.0	155.0	202
JMSH1001AE7	TO-263-7L	-	N	100	290.0	2.7	1.6	2.0	-	-	-	-	±20	984.0	9,623	2,091.0	32.0	155.0	248
JMSH1001BTL	PowerJE*10x12	TOLL	N	100	300.0	2.8	1.7	2.0	-	-	-	-	±20	1,250.0	7,011	1,512.0	4.7	102.0	173
JMSH1002AC	TO-220-3L	TO-220	N	100	270.0	2.7	1.8	2.3	-	-	-	-	±20	720.0	9,623	2,091.0	32.0	155.0	279
JMSH1002AE	TO-263-3L	D <sup>2</sup> PAK	N	100	270.0	2.7	1.6	2.0	-	-	-	-	±20	720.0	9,623	2,091.0	32.0	155.0	248
JMSH1002APS	TO-247PS-3L	TO-247	N	100	287.0	2.8	1.9	2.4	-	-	-	-	±20	794.0	9,674	2,257.0	32.0	155.0	295
JMSH1002AS	TO-247-3L	TO-247	N	100	287.0	2.8	1.7	2.0	-	-	-	-	±20	126.0	9,623	2,091.0	32.0	155.0	264
JMSH1002BC	TO-220-3L	TO-220	N	100	258.0	2.7	2.3	2.8	-	-	-	-	±20	694.0	7,011	1,512.0	4.7	102.0	235
JMSH1002BE	TO-263-3L	D <sup>2</sup> PAK	N	100	258.0	2.7	2.1	2.6	-	-	-	-	±20	694.0	7,011	1,512.0	4.7	102.0	214
JMSH1002CC	TO-220-3L	TO-220	N	100	219.0	2.8	2.6	3.1	-	-	-	-	±20	558.0	5,740	1,193.0	7.6	83.0	216
JMSH1002CE	TO-263-3L	D <sup>2</sup> PAK	N	100	219.0	2.8	2.4	2.9	-	-	-	-	±20	558.0	5,740	1,193.0	7.6	83.0	199
JMSH1002CTL	PowerJE*10x12	TOLL	N	100	295.0	2.8	1.9	2.4	-	-	-	-	±20	1,250.0	5,740	1,193.0	7.6	83.0	158
JMSL1003AG	PDFN5x6-8L	SuperSO8	N	100	135.0	1.6	2.8	3.4	3.4	4.3	-	-	±20	259.0	4,646	1,214.0	5.8	78.0	218
JMSH1003AG	PDFN5x6-8L	SuperSO8	N	100	144.0	2.7	2.8	3.5	-	-	-	-	±20	238.0	4,374	1,140.0	4.7	70.0	196
JMSH1003ATL	PowerJE*10x12	TOLL	N	100	228.0	2.8	2.7	3.4	-	-	-	-	±20	512.0	4,398	1,361.0	8.5	66.0	178
JMSH1003CC	TO-220-3L	TO-220	N	100	197.0	2.8	2.9	3.6	-	-	-	-	±20	558.0	5,740	1,193.0	7.6	83.0	241
JMSH1004AC	TO-220-3L	TO-220	N	100	190.0	2.7	3.0	3.6	-	-	-	-	±20	245.0	4,398	1,361.0	8.5	66.0	198
JMSH1004AE	TO-263-3L	D <sup>2</sup> PAK	N	100	190.0	2.7	3.0	3.6	-	-	-	-	±20	245.0	4,398	1,361.0	8.5	66.0	198
JMSH1004ACR	TO-220AS-3L	-	N	100	165.0	2.7	3.0	3.6	-	-	-	-	±20	245.0	4,398	1,361.0	8.5	66.0	198
JMSL1004BG	PDFN5x6-8L	SuperSO8	N	100	117.0	1.7	3.4	4.1	4.3	5.2	-	-	±20	205.0	3,709	873.0	6.7	62.0	211
JMSH1004BG	PDFN5x6-8L	SuperSO8	N	100	112.0	2.7	3.3	4.3	-	-	-	-	±20	231.0	3,434	906.0	14.0	57.0	188
JMSH1004BC	TO-220-3L	TO-220	N	100	139.0	2.7	3.5	4.2	-	-	-	-	±20	304.0	3,433	905.0	13.0	57.2	200
JMSH1004BE	TO-263-3L	D <sup>2</sup> PAK	N	100	139.0	2.7	3.5	4.2	-	-	-	-	±20	304.0	3,433	905.0	13.0	57.2	200
JMSH1005AC	TO-220-3L	TO-220	N	100	128.0	2.7	4.4	5.3	-	-	-	-	±20	265.0	2,816	614.0	7.4	42.0	185
JMSL1005AG	PDFN5x6-8L	SuperSO8	N	100	108.0	1.9	4.2	5.3	5.3	6.9	-	-	±20	146.0	2,896	631.0	7.8	48.0	202



Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>GS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GSth_Typ</sub> (V)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>int_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>int_Typ</sub> (pF)	Q <sub>2_Typ</sub> (nC)	FOM
JMSH1005AE	TO-263-3L	D <sup>2</sup> PAK	N	100	128.0	2.7	4.4	5.3	-	-	-	-	±20	265.0	2,816	614.0	7.4	42.0	185
JMGC044V10D	TO-220C-3L	TO-220	N	100	145.0	1.5	4.4	5.7	5.3	8.5	-	-	±20	196.0	5,100	2,800.0	355.0	93.0	409
JMSL1006AG	PDFN5x6-8L	SuperSO8	N	100	108.0	1.9	4.7	5.9	5.9	7.7	-	-	±20	110.0	2,604	567.0	9.6	42.0	197
JMSH1006AG	PDFN5x6-8L	SuperSO8	N	100	102.0	2.7	5.3	6.6	-	-	-	-	±20	110.0	2,369	545.0	11.6	38.0	201
JMSL1006AK	TO-252-3L	DPAK	N	100	99.0	1.7	5.4	6.6	6.6	8.0	-	-	±20	125.0	2,604	567.0	9.6	42.0	227
JMSH1006AC	TO-220-3L	TO-220	N	100	114.0	2.7	5.2	6.4	-	-	-	-	±20	130.0	2,369	545.0	11.6	38.0	198
JMSH1006AE	TO-263-3L	D <sup>2</sup> PAK	N	100	114.0	2.7	5.2	6.4	-	-	-	-	±20	130.0	2,369	545.0	11.6	38.0	198
JMSH1006AK	TO-252-3L	DPAK	N	100	90.0	2.7	5.5	6.6	-	-	-	-	±20	154.0	2,369	545.0	11.6	38.0	209
JMSH1006ACR	TO-220AS-3L	-	N	100	114.0	2.7	5.3	6.4	-	-	-	-	±20	130.0	2,369	545.0	11.6	38.0	201
JMSL1008AG	PDFN5x6-8L	SuperSO8	N	100	93.0	1.7	6.0	7.6	8.0	10.0	-	-	±20	101.0	2,200	445.0	8.0	34.0	204
JMSL1008AC	TO-220-3L	TO-220	N	100	114.0	1.8	6.5	7.8	8.1	10.2	-	-	±20	88.0	2,360	368.0	5.9	34.0	221
JMSL1008AE	TO-263-3L	D <sup>2</sup> PAK	N	100	114.0	1.8	6.5	7.8	-	-	-	-	±20	88.0	2,360	368.0	5.9	34.0	221
JMSL1008AP	SOP-8	SOP-8	N	100	12.0	1.8	7.4	8.9	9.2	11.5	-	-	±20	101.0	2,360	368.0	5.9	34.0	252
JMSH1008AG	PDFN5x6-8L	SuperSO8	N	100	92.0	2.8	6.2	7.8	-	-	-	-	±20	101.0	1,920	445.0	7.0	30.0	186
JMSH1008AC	TO-220-3L	TO-220	N	100	95.0	2.8	6.8	8.0	-	-	-	-	±20	101.0	1,920	445.0	7.0	30.0	204
JMSH1008AE	TO-263-3L	D <sup>2</sup> PAK	N	100	95.0	2.8	6.8	8.0	-	-	-	-	±20	101.0	1,920	445.0	7.0	30.0	204
JMSL1008AK	TO-252-3L	DPAK	N	100	82.0	1.7	6.7	8.1	8.5	11.0	-	-	±20	101.0	2,200	445.0	8.0	34.0	228
JMGC088V10A	TO-220C-3L	TO-220	N	100	80.0	1.6	7.1	8.9	9.0	13.5	-	-	±20	90.0	2,046	865.0	25.0	34.0	241
JMGK088V10A	TO-252-3L	DPAK	N	100	80.0	1.6	7.2	9.1	9.1	13.5	-	-	±20	90.0	2,046	865.0	25.0	34.0	245
JMGG088V10A	PDFN5x6-8L	SuperSO8	N	100	75.0	1.6	7.3	9.2	9.0	13.5	-	-	±20	90.0	2,046	865.0	25.0	34.0	248
JMSL1008AUN	DFN3333-8L	-	N	100	36.0	1.8	7.4	9.3	9.1	11.8	-	-	±20	122.0	2,200	445.0	8.0	34.0	252
JMSL1009AG	PDFN5x6-8L	SuperSO8	N	100	77.0	1.7	7.0	8.2	8.9	11.2	-	-	±20	86.0	1,314	548.0	26.0	25.0	175
JMSL1009AK	TO-252-3L	DPAK	N	100	78.0	1.7	7.8	9.4	9.9	12.9	-	-	±20	86.0	1,314	548.0	26.0	25.0	195
JMSL1009AU	PDFN3x3-8L	PQFN 3x3	N	100	67.0	1.7	7.6	8.8	9.7	11.8	-	-	±20	86.0	1,314	548.0	26.0	25.0	190
JMGP088V10A	SOP-8	SOP-8	N	100	20.0	1.6	7.5	9.7	9.4	14.0	-	-	±20	90.0	2,046	865.0	25.0	39.4	296
JMGI088V10A	TO-251-3L	DPAK3	N	100	80.0	1.6	7.7	10.0	9.4	14.0	-	-	±20	90.0	2,046	865.0	25.0	39.4	303
JMSL1010AG	PDFN5x6-8L	SuperSO8	N	100	58.0	1.9	8.0	10.0	10.5	13.7	-	-	±20	94.0	1,535	335.0	8.2	26.0	208
JMSL1010AU	PDFN3x3-8L	PQFN 3x3	N	100	38.0	1.9	9.6	12.0	12.0	15.6	-	-	±20	45.0	1,535	335.0	8.2	26.0	250
JMSH1010AK	TO-252-3L	DPAK	N	100	64.0	2.7	9.2	11.5	-	-	-	-	±20	86.0	1,372	291.0	6.2	21.0	193
JMSH1010AC	TO-220-3L	TO-220	N	100	65.0	2.7	9.4	11.8	-	-	-	-	±20	68.0	1,372	291.0	6.2	21.0	197
JMSH1010AE	TO-263-3L	D <sup>2</sup> PAK	N	100	65.0	2.7	9.4	11.8	-	-	-	-	±20	68.0	1,372	291.0	6.2	21.0	197
JMSL1010AK	TO-252-3L	DPAK	N	100	70.0	1.9	8.3	10.0	10.8	13.5	-	-	±20	48.0	1,535	335.0	8.2	26.0	216

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>GS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(ON)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>iss_Typ</sub> (pF)	Q <sub>g_Typ</sub> (nC)	FOM
JMSH1010AG	PDFN5x6-8L	SuperSO8	N	100	63.0	2.7	8.8	11.0	-	-	-	-	±20	86.0	1,372	291.0	6.2	21.0	185
JMSL1010AC	TO-220-3L	TO-220	N	100	72.0	1.9	7.9	10.0	10.4	13.6	-	-	±20	94.0	1,535	335.0	8.2	26.0	205
JMSL1010AP	SOP-8	SOP-8	N	100	11.0	1.8	9.2	11.1	11.8	14.8	-	-	±20	51.0	1,535	335.0	8.2	26.0	239
JMSL1013AGD	PDFN5x6-8L-D	-	N+N	100	48.0	1.7	10.4	13.0	12.9	16.8	-	-	±20	68.0	1,535	335.0	8.2	26.0	270
JMSH1018AG	PDFN5x6-8L	SuperSO8	N	100	33.0	3.2	15.8	19.8	-	-	-	-	±20	39.0	769	171.0	5.1	12.7	201
JMSH1018AC	TO-220-3L	TO-220	N	100	33.0	3.2	15.5	19.5	15.8	19.8	-	-	±20	39.0	769	171.0	5.1	12.7	197
JMSH1018AE	TO-263-3L	D <sup>2</sup> PAK	N	100	33.0	3.2	15.5	19.5	15.8	19.8	-	-	±20	39.0	769	171.0	5.1	12.7	197
JMSL1018AG	PDFN5x6-8L	SuperSO8	N	100	35.0	1.9	14.5	18.2	18.7	24.4	-	-	±20	29.0	769	171.0	5.1	13.0	189
JMSL1018AGD	PDFN5x6-8L-D	-	N+N	100	31.0	2.0	17.0	21.0	22.0	29.0	-	-	±20	29.0	769	171.0	5.1	12.7	216
JMSL1018AK	TO-252-3L	DPAK	N	100	40.0	1.9	14.0	17.0	18.5	23.0	-	-	±20	24.0	769	171.0	5.1	12.7	178
JMSL1018AP	SOP-8	SOP-8	N	100	8.1	1.9	15.8	19.8	19.0	25.0	-	-	±20	24.0	769	171.0	5.1	12.7	201
JMSL1023AY	SOT-223-3L	SOT-223	N	100	19.4	1.9	19.0	23.8	23.3	31.0	-	-	±20	50.0	769	171.0	5.1	12.7	241
JMSL1040AG	PDFN5x6-8L	SuperSO8	N	100	18.9	2.0	29.0	36.0	39.0	50.0	-	-	±20	11.3	363	85.0	3.0	6.8	197
JMSL1040AV	DFN2020-6L	PQFN 2x2	N	100	4.7	1.9	29.0	36.0	37.0	48.0	-	-	±20	20.0	363	85.0	3.0	6.8	197
JMSL1040AU	PDFN3x3-8L	PQFN 3x3	N	100	18.0	2.0	29.0	36.0	38.0	50.0	-	-	±20	11.0	363	85.0	3.0	6.8	197
JMSL1040AGD	PDFN5x6-8L-D	-	N+N	100	18.4	2.0	28.0	36.0	40.0	52.0	-	-	±20	11.3	363	85.0	3.0	6.8	190
JMSL1040AUD	PDFN3x3-8L-D	-	N+N	100	17.0	2.0	31.0	39.0	39.0	51.0	-	-	±20	11.0	363	85.0	3.0	6.8	211
JMSL1040AY	SOT-223-3L	SOT-223	N	100	13.0	2.0	30.0	39.0	38.0	50.0	-	-	±20	21.0	363	85.0	3.0	6.8	204
JMSL1040AC	TO-220-3L	TO-220	N	100	26.0	1.9	30.0	36.0	38.0	48.0	-	-	±20	10.0	363	85.0	3.0	6.8	204
JMSL1040AK	TO-252-3L	DPAK	N	100	24.0	2.0	32.0	39.0	43.0	54.0	-	-	±20	10.0	363	85.0	3.0	6.8	218
JMSL1040APD	SOP-8	SOP-8	N	100	12.3	2.0	31.0	40.0	40.0	52.0	-	-	±20	11.3	363	85.0	3.0	6.8	211
JMGK10V10A	TO-252-3L	DPAK	N	100	10.0	1.7	116.0	151.0	136.0	190.0	-	-	±20	1.6	154	34.0	6.0	4.3	499
JMSL1070AK	TO-252-3L	DPAK	N	100	18.1	2.0	57.0	70.0	70.0	91.0	-	-	±20	1.0	187	54.0	5.0	3.9	222
JMSL1070AY	SOT-223-3L	SOT-223	N	100	8.4	2.0	54.0	70.0	75.0	98.0	-	-	±20	1.0	187	54.0	5.0	3.9	211
JMSL1070APD	SOP-8	SOP-8	N	100	5.5	1.8	57.0	70.0	71.0	92.0	-	-	±20	1.0	187	54.0	5.0	3.9	222
JMSL10130AK	TO-252-3L	DPAK	N	100	9.0	1.7	115.0	138.0	144.0	180.0	-	-	±20	4.9	96	32.0	2.9	2.5	288
JMGY7V10A	SOT-223-3L	SOT-223	N	100	7.0	1.7	105.0	137.0	125.0	175.0	-	-	±20	1.0	150	34.0	6.0	4.3	452
JMGP10V10A	SOP-8	SOP-8	N	100	7.0	1.7	108.0	140.0	128.0	179.0	-	-	±20	1.6	150	34.0	6.0	4.3	464
JMGL3V10A	SOT-23	SOT-23	N	100	3.0	1.7	112.0	146.0	131.0	182.0	-	-	±20	-	150	34.0	6.0	4.3	482
JMGM14DV10A	SOT-23-6L		N	100	3.0	1.7	110.0	140.0	133.0	186.0	-	-	±20	-	150	34.0	6.0	4.3	473
JMSL10130AM	SOT-23-6L	-	N	100	2.1	1.9	105.0	126.0	135.0	169.0	-	-	±20	0.9	103	47.0	4.9	2.3	242
JMSL10130AL	SOT-23	SOT-23	N	100	1.8	1.9	105.0	131.0	139.0	174.0	-	-	±20	0.8	103	47.0	4.9	2.3	242

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(Oh)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>res_Typ</sub> (pF)	Q <sub>9_Typ</sub> (nC)	FOM
JMSL10130AP	SOP-8	SOP-8	N	100	2.4	1.7	107.0	134.0	140.0	175.0	-	-	±20	0.9	103	47.0	4.9	2.6	278
JMSL10130AY	SOT-223-3L	SOT-223	N	100	5.9	1.9	110.0	138.0	137.0	180.0	-	-	±20	0.9	103	47.0	4.9	2.3	253
JMSL10130AGD	PDFN5x6-8L-D	-	N+N	100	10.0	1.7	99.0	124.0	120.0	156.0	-	-	±20	0.9	103	47.0	4.9	2.3	228
JMSL10130APD	SOP-8	SOP-8	N+N	100	2.4	1.7	111.0	139.0	155.0	195.0	-	-	±20	0.9	103	47.0	4.9	2.5	278
JMSL10130AUD	PDFN3x3-8L-D	-	N+N	100	10.1	1.7	100.0	125.0	123.0	160.0	-	-	±20	0.9	103	47.0	4.9	2.6	260
JMSH1207AG	PDFN5x6-8L	SuperSO8	N	120	94.0	3.0	5.6	7.0	-	-	-	-	±20	135.0	2,208	424.0	8.3	35.0	196
JMGG070V12D	PDFN5x6-8L	SuperSO8	N	120	90.0	3.0	5.7	7.4	-	-	-	-	±25	182.0	3,600	2,400.0	156.0	90.0	513
JMSH1207AC	TO-220-3L	TO-220	N	120	112.0	2.9	5.9	7.1	-	-	-	-	±20	135.0	2,208	424.0	8.3	35.0	207
JMSH1207AE	TO-263-3L	D <sup>2</sup> PAK	N	120	112.0	2.9	5.9	7.1	-	-	-	-	±20	135.0	2,208	424.0	8.3	35.0	207
JMGG140V12A	PDFN5x6-8L	SuperSO8	N	120	50.0	3.0	11.0	14.0	-	-	-	-	±25	81.0	1,625	1,230.0	29.0	37.0	407
JMSH1305AC	TO-220-3L	TO-220	N	135	147.0	3.0	4.3	5.0	-	-	-	-	±20	540.0	4,307	611.0	4.2	61.0	262
JMSH1305AE	TO-263-3L	D <sup>2</sup> PAK	N	135	147.0	3.0	4.3	5.0	-	-	-	-	±20	540.0	4,307	611.0	4.2	61.0	262
JMSH1503ATL	PowerJE*10x12	TOLL	N	150	283.0	3.3	2.6	3.1	-	-	-	-	±20	1,442.0	6,542	4,029.0	201.0	93.0	242
JMSH1504AC	TO-220-3L	TO-220	N	150	185.0	3.2	4.2	5.2	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	370
JMSH1504AE	TO-263-3L	D <sup>2</sup> PAK	N	150	185.0	3.2	3.9	4.9	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	343
JMSH1504AE7	TO-263-7L	D <sup>2</sup> PAK7	N	150	205.0	3.2	3.8	4.8	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	334
JMSH1504AS	TO-247-3L	TO-247	N	150	201.0	3.2	4.0	4.9	-	-	-	-	±20	889.0	6,540	772.0	6.7	88.0	352
JMSH1504ATL	PowerJE*10x12	TOLL	N	150	263.0	3.2	3.3	4.2	-	-	-	-	±20	1,201.0	6,540	772.0	6.7	88.0	290
JMSH1504CTL	PowerJE*10x12	TOLL	N	150	252.0	3.5	3.3	4.0	-	-	-	-	±20	1,536.0	3,171	860.0	29.0	48.0	158
JMSH1505ATL	PowerJE*10x12	TOLL	N	150	159.0	3.2	4.6	5.8	-	-	-	-	±20	800.0	4,320	535.0	7.2	68.0	313
JMSH1507AC	TO-220-3L	TO-220	N	150	115.0	3.0	5.2	6.5	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	354
JMSH1507AE	TO-263-3L	D <sup>2</sup> PAK	N	150	115.0	3.0	5.2	6.5	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	354
JMSH1506AE7	TO-263-7L	-	N	150	181.0	3.2	4.9	6.0	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	333
JMSH1506AS	TO-247-3L	TO-247	N	150	157.0	3.2	5.2	6.2	-	-	-	-	±20	540.0	4,320	535.0	7.2	68.0	354
JMSL1507AGN	DFN5060-8L	-	N	150	105.0	2.1	5.7	7.1	7.1	9.2	-	-	±20	484.0	4,510	457.0	46.0	69.0	393
JMSH1507AGN	DFN5060-8L	-	N	150	99.0	3.2	6.0	7.5	-	-	-	-	±20	484.0	3,395	457.0	30.0	51.0	306
JMSH1508AC	TO-220-3L	TO-220	N	150	98.0	3.2	7.1	8.8	-	-	-	-	±20	265.0	3,395	457.0	17.4	47.0	334
JMSH1508AE	TO-263-3L	D <sup>2</sup> PAK	N	150	98.0	3.2	6.7	8.4	-	-	-	-	±20	265.0	3,395	457.0	17.4	47.0	315

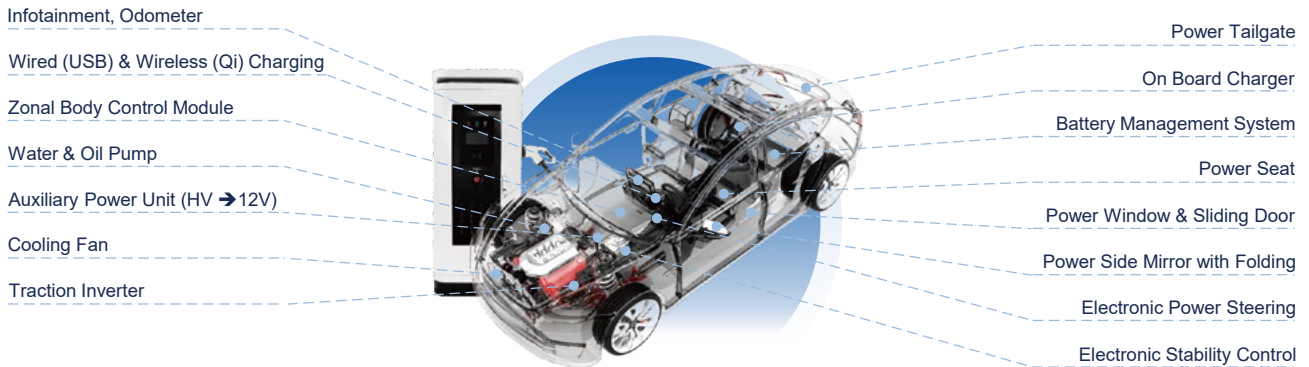
Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>GS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(on),Typ</sub> (V)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on),Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on),Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	C <sub>oss,Typ</sub> (pF)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)	FOM
JMSH1509AG	PDFN5x6-8L	SuperSO8	N	150	75.0	3.0	8.5	9.9	-	-	-	-	±20	231.0	2,181	363.0	7.9	30.0	255
JMSH1509AC	TO-220-3L	TO-220	N	150	90.0	3.0	9.0	10.9	-	-	-	-	±20	211.0	3,609	348.0	4.8	47.0	423
JMSH1509AE	TO-263-3L	D <sup>2</sup> PAK	N	150	90.0	3.0	9.0	10.9	-	-	-	-	±20	211.0	3,609	348.0	4.8	47.0	423
JMSH1510AG	PDFN5x6-8L	SuperSO8	N	150	77.0	3.2	9.5	10.9	-	-	-	-	±20	434.0	1,246	339.0	9.7	19.2	182
JMSH1511AC	TO-220-3L	TO-220	N	150	78.0	3.0	11.5	13.9	-	-	-	-	±20	194.0	2,890	280.0	3.9	38.0	437
JMSH1513AG	PDFN5x6-8L	SuperSO8	N	150	60.0	3.2	10.5	13.0	-	-	-	-	±20	217.0	2,128	274.0	9.0	30.0	315
JMSH1513AC	TO-220-3L	TO-220	N	150	69.0	3.2	10.8	13.7	-	-	-	-	±20	173.0	2,128	274.0	9.0	30.0	324
JMSH1513AE	TO-263-3L	D <sup>2</sup> PAK	N	150	69.0	3.2	10.6	13.3	-	-	-	-	±20	173.0	2,128	274.0	9.0	30.0	318
JMSH1513BG	PDFN5x6-8L	SuperSO8	N	150	70.0	3.2	10.5	12.6	-	-	-	-	±20	434.0	1,295	344.0	9.0	19.5	205
JMSH1516AG	PDFN5x6-8L	SuperSO8	N	150	51.0	3.2	14.2	16.8	-	-	-	-	±20	135.0	1,603	196.0	7.5	23.0	327
JMSH1516AC	TO-220-3L	TO-220	N	150	61.0	3.2	14.5	16.9	-	-	-	-	±20	135.0	1,603	196.0	7.5	23.0	334
JMSH1516AE	TO-263-3L	D <sup>2</sup> PAK	N	150	61.0	3.2	14.5	16.9	-	-	-	-	±20	135.0	1,603	196.0	7.5	23.0	334
JMSH1552AG	PDFN5x6-8L	SuperSO8	N	150	20.0	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	327
JMSH1552AU	PDFN3x3-8L	PQFN 3x3	N	150	15.0	3.2	45.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	342
JMSH1552AK	TO-252-3L	DPAK	N	150	20.0	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	327
JMSH1552AP	SOP-8	SOP-8	N	150	4.6	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.3	314
JMSH1565AGS	PDFN5x6-8L	SuperSO8	N	150	18.0	3.2	52.0	65.0	-	-	-	-	±20	20.0	306	70.0	3.8	5.3	276
JMSH1565AUS	PDFN3x3-8L	PQFN 3x3	N	150	14.0	3.2	54.0	65.0	-	-	-	-	±20	20.0	306	70.0	3.8	5.3	286
JMSH1565AKS	TO-252-3L	DPAK	N	150	18.0	3.2	52.0	65.0	-	-	-	-	±20	16.0	306	70.0	3.8	5.3	276
JMSH1565APS	SOP-8	SOP-8	N	150	4.1	3.2	52.0	65.0	-	-	-	-	±20	16.0	306	70.0	3.8	5.3	276
JMSH1535AG	PDFN5x6-8L	SuperSO8	N	150	28.0	3.3	27.0	35.0	-	-	-	-	±20	48.0	760	113.0	23.0	12.3	332
JMSH1566AG	PDFN5x6-8L	SuperSO8	N	150	11.6	3.3	57.0	72.0	-	-	-	-	±20	10.5	360	54.0	3.8	5.9	336
JMSH1566AK	TO-252-3L	DPAK	N	150	20.0	3.2	57.0	72.0	-	-	-	-	±20	10.5	360	54.0	3.8	5.9	336
JMSH2010BC	TO-220-3L	TO-220-3L	N	200	129.0	3.3	9.4	10.9	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	451
JMSH2010BE	TO-263-3L	D <sup>2</sup> PAK	N	200	129.0	3.3	9.1	10.7	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	437
JMSH2010BS	TO-247-3L	TO-247-3L	N	200	130.0	3.3	8.8	10.6	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	422
JMSH2010BTL	PowerE <sup>®</sup> 10x12	TOLL	N	200	118.0	3.3	8.0	9.6	-	-	-	-	±20	882.0	3,318	436.0	41.0	48.0	384

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(th)_Typ</sub> (V)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>rss_Typ</sub> (pF)	Q <sub>s_Typ</sub> (nC)	FOM
JMSH1552AG	PDFN5x6-8L	SuperSO8	N	150	20.0	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	327
JMSH1552AU	PDFN3x3-8L	PQFN 3x3	N	150	15.0	3.2	45.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	342
JMSH1552AK	TO-252-3L	DPAK	N	150	20.0	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.6	327
JMSH1552AP	SOP-8	SOP-8	N	150	4.6	3.2	43.0	52.0	-	-	-	-	±20	13.0	540	69.0	4.1	7.3	314
JMSH1565AGS	PDFN5x6-8L	SuperSO8	N	150	18.0	3.2	52.0	65.0	-	-	-	-	±20	20.0	306	70.0	3.8	5.3	276
JMSH1565AUS	PDFN3x3-8L	PQFN 3x3	N	150	14.0	3.2	54.0	65.0	-	-	-	-	±20	20.0	306	70.0	3.8	5.3	286
JMSH1565AKS	TO-252-3L	DPAK	N	150	18.0	3.2	52.0	65.0	-	-	-	-	±20	16.0	306	70.0	3.8	5.3	276
JMSH1565APS	SOP-8	SOP-8	N	150	4.1	3.2	52.0	65.0	-	-	-	-	±20	16.0	306	70.0	3.8	5.3	276
JMSH1535AG	PDFN5x6-8L	SuperSO8	N	150	28.0	3.3	27.0	35.0	-	-	-	-	±20	48.0	760	113.0	23.0	12.3	332
JMSH1566AG	PDFN5x6-8L	SuperSO8	N	150	11.6	3.3	57.0	72.0	-	-	-	-	±20	10.5	360	54.0	3.8	5.9	336
JMSH1566AK	TO-252-3L	DPAK	N	150	20.0	3.2	57.0	72.0	-	-	-	-	±20	10.5	360	54.0	3.8	5.9	336
JMSH2010BC	TO-220-3L	TO-220-3L	N	200	129.0	3.3	9.4	10.9	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	451
JMSH2010BE	TO-263-3L	D <sup>2</sup> PAK	N	200	129.0	3.3	9.1	10.7	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	437
JMSH2010BS	TO-247-3L	TO-247-3L	N	200	130.0	3.3	8.8	10.6	-	-	-	-	±20	841.0	3,318	436.0	41.0	48.0	422
JMSH2010BTL	PowerJE <sup>®</sup> 10x12	TOLL	N	200	118.0	3.3	8.0	9.6	-	-	-	-	±20	882.0	3,318	436.0	41.0	48.0	384

≥ 400V

高压技术平台分「平面」及「超结」两个主流，后者又再分多层外延及深沟槽两类。因应快充充电、AC / DC 电源、电机驱动、电源逆变等应用，捷捷微电 提供下面列表里的高压 N 沟道 MOSFETs 予电路工程师选用。

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GS(th)_Typ</sub> (V)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =4.5V (mΩ)	R <sub>DS(on)_Typ</sub> @V <sub>GS</sub> =2.5V (mΩ)	R <sub>DS(on)_Max</sub> @V <sub>GS</sub> =2.5V (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>rss_Typ</sub> (pF)	Q <sub>s_Typ</sub> (nC)	FOM
JMPK840G1	TO-252-3L	DPAK	N	500	9.0	3.0	680.0	800.0	-	-	-	-	±30	180.0	1,100	106.0	32.0	19.5	13,260
JMPF20N60G1	TO-220FP-3L	-	N	600	20.0	3.0	310.0	380.0	-	-	-	-	±30	605.0	3,229	271.0	17.0	61.0	18,910
JMPF13N60G1	TO-220FP-3L	-	N	600	13.0	3.0	500.0	650.0	-	-	-	-	±30	304.0	2,125	181.0	15.0	61.0	30,500
JMPF8N60G1	TO-252-3L	DPAK	N	600	8.0	3.0	1,000.0	1,180.0	-	-	-	-	±30	145.8	1,160	109.0	12.0	26.0	26,000
JMPK2N60G1	TO-252-3L	DPAK	N	600	2.0	3.0	3,900.0	4,700.0	-	-	-	-	±30	54.0	293	35.0	7.0	10.0	39,000
JMPK1N60G1	TO-252-3L	DPAK	N	600	1.0	3.0	8,800.0	11,000.0	-	-	-	-	±30	-	137	17.0	3.0	4.8	42,240
JMPK1N60G1	TO-252-3L	DPAK	N	600	1.0	3.0	8,800.0	11,000.0	-	-	-	-	±30	-	137	17.0	3.0	4.8	42,240
JMPF20N65G1	TO-220FP-3L	-	N	650	20.0	3.0	350.0	440.0	-	-	-	-	±30	661.0	3,300	255.0	13.0	86.0	30,100
JMPF16N65G1	TO-220FP-3L	-	N	650	16.0	3.0	480.0	580.0	-	-	-	-	±30	461.0	2,740	214.0	15.0	71.0	34,080
JMPF10N65G1	TO-220FP-3L	-	N	650	10.0	3.0	750.0	950.0	-	-	-	-	±30	245.0	1,720	140.0	11.0	71.0	53,250
JMPF9N65G1	TO-220FP-3L	-	N	650	9.0	3.0	900.0	1,080.0	-	-	-	-	±30	218.0	1,446	128.0	13.0	32.0	28,800
JMPK9N65G1	TO-252-3L	DPAK	N	650	9.0	3.0	900.0	1,080.0	-	-	-	-	±30	211.0	1,400	114.0	26.0	32.0	28,800
JMPK7N65G1	TO-252-3L	DPAK	N	650	7.0	3.0	1,150.0	1,350.0	-	-	-	-	±30	198.0	1,148	106.0	12.0	22.0	25,300
JMPFP7N65G1	TO-220FA-3L	-	N	650	7.0	3.0	1,100.0	1,350.0	-	-	-	-	±30	198.0	1,148	106.0	12.0	22.0	24,200
JMPK2N65G1	TO-252-3L	DPAK	N	650	2.0	3.0	4,500.0	5,500.0	-	-	-	-	±30	31.0	296	34.0	7.0	22.0	99,000
JMPF10N80G1	TO-220FP-3L	-	N	800	10.0	3.5	740.0	900.0	-	-	-	-	±30	605.0	2,578	217.0	26.0	78.0	57,720
JMPF9N90G1	TO-220FP-3L	-	N	900	9.0	3.5	960.0	1,100.0	-	-	-	-	±30	605.0	2,500	186.0	23.0	86.0	82,560
JMPF6N100G1	TO-220FP-3L	-	N	1000	6.0	3.5	1,200.0	1,400.0	-	-	-	-	±30	461.0	2,495	173.0	22.0	86.0	103,200



汽车应用从有刷电机到无刷电机，车用照明大量使用LED照明的转变，汽车也越来越电动化，智能化，催生极大功率器件的需求。捷捷微电顺应这一趋势，车规级产品持续聚焦在汽车三电（电池，电源及电机），车身照明及智能出行（ADAS, Telematics and Infotainment systems, etc.）等应用。

车规级 MOSFET 产品布局先进封装的基础上，尽量降低导通内阻的同时，能额外降低器件结电容效应，减少 $Q_g$ ，进而提供较高的工作效率，减少发热，提供兼容市面主流应用先进封装架构的高可靠性车规级产品。

## 汽车电机应用

捷捷微电车规级产品 MOSFET 可广泛应用在汽车助力转向、油泵、水泵、以及电动车窗、尾门、座椅、天窗等。

车规级 MOSFET 产品在尽量降低导通内阻的同时，能额外降低器件结电容效应，减少 $Q_g$ ，进而提供较高的工作效率，减少发热，并且提供兼容市面主流应用先进封装架构，如PDFN5x6-8L, PowerJE®7x8 (sTOLL兼容), PowerJE®10 x12 (TOLL兼容) 常用在电机开关等应用。同时，这些产品经过严格 AEC-Q101 Rev-E 测试，具备高可靠性。



## 车规级 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Configuration	$V_{DS\_Max}$ (V)	$I_{D\_Max}$ (A)	$V_{GS(th)_Typ}$ (V)	$R_{DS(ON)_Typ}$ @ $V_{GS}=10V$ (mΩ)	$R_{DS(ON)_Max}$ @ $V_{GS}=10V$ (mΩ)	$V_{GS\_Max}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$Q_g\_Typ$ (nC)
JMSH0401BGQ	PDFN5x6-8L	SuperSO8	N	40	276	2.8	0.9	1.1	±20	441	5,280	68.0
JMSH0401ATLQ	PowerJE®10x12	TOLL	N	40	337	2.8	1.0	1.3	±20	317	5,280	68.0
JMSH0401AGQ	PDFN5x6-8L	SuperSO8	N	40	197	2.8	1.3	1.7	±20	194	3,015	42.0
JMSH0402AGQ	PDFN5x6-8L	SuperSO8	N	40	182	2.8	1.6	2.0	±20	194	3,020	41.0
JMSL0403AGQ	PDFN5x6-8L	SuperSO8	N	40	128	1.5	2.5	3.1	±20	79	1,424	22.0
JMSL0406AGQ	PDFN5x6-8L	SuperSO8	N	40	90	1.6	4.2	5.2	±20	36	1,204	17.9
JMSL0406AGDQ	PDFN5x6-8L-D	-	N+N	40	49	1.6	5.5	6.9	±20	36	1,227	17.9
JMSH0601ATLQ	PowerJE®10x12	TOLL	N	60	348	2.8	1.2	1.6	±20	480	7,312	102.0
JMSH0601AGQ	PDFN5x6-8L	SuperSO8	N	60	225	2.8	1.3	1.7	±20	375	5,874	81.0
JMSH0602AGQ	PDFN5x6-8L	SuperSO8	N	60	168	2.8	1.9	2.4	±20	240	3,562	50.0
JMSL0610AGDQ	PDFN5x6-8L-D	-	N+N	60	38	1.6	8.5	10.6	±20	34	1,087	16.6

## 汽车电源（含车灯照明）应用

捷微电车规级 MOSFET 广泛应用于车灯照明及新能源汽车电源应用。

车规级 MOSFET 通过先进的工艺制程，提供优异的电气特性如 $R_{DS(ON)}$ 和 $Q_g$ ，非常适合工作频率较高的开关电源应用。目前产品涵盖低压 40 ~ 60V、中压 100 ~ 150V、以及超结高压650V以上各类应用。



## 车规级 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Configuration	$V_{DS\_Max}$ (V)	$I_{D\_Max}$ (A)	$V_{GS(th)_Typ}$ (V)	$R_{DS(ON)_Typ}$ @ $V_{GS}=10V$ (m $\Omega$ )	$R_{DS(ON)_Max}$ @ $V_{GS}=10V$ (m $\Omega$ )	$V_{GS\_Max}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$Q_g\_Typ$ (nC)
JMSL0609AGQ	PDFN5x6-8L	SuperSO8	N	60	67	1.6	7.2	9.4	±20	34	1,087	16.6
JMSL0609AUQ	PDFN3x3-8L	PQFN 3x3	N	60	44	1.6	7.5	9.4	±20	34	1,087	16.6
JMSL0610AGDQ	PDFN5x6-8L-D	-	N+N	60	38	1.6	8.5	10.6	±20	34	1,087	16.6
JMSL0612AGQ	PDFN5x6-8L	SuperSO8	N	60	52	1.6	9.5	12.0	±20	20	731	13.9
JMSL0612AUQ	PDFN3x3-8L	PQFN 3x3	N	60	36	1.6	10.0	12.5	±20	20	731	13.9
JMSL0615AGDQ	PDFN5x6-8L-D	-	N+N	60	33	1.6	10.5	13.5	±20	20	731	13.9
JMSL1006AGQ	PDFN5x6-8L	SuperSO8	N	100	110	1.8	4.7	5.9	±20	110	2,604	42.0
JMSL1008AGQ	PDFN5x6-8L	SuperSO8	N	100	88	1.8	6.0	7.6	±20	102	2,200	34.0
JMSL1010AGQ	PDFN5x6-8L	SuperSO8	N	100	68	1.9	8.0	10.0	±20	94	1,535	26.0
JMSL1010AUQ	PDFN3x3-8L	PQFN 3x3	N	100	46	1.9	8.5	10.6	±20	45	1,535	26.0
JMSL1018AGQ	PDFN5x6-8L	SuperSO8	N	100	47	1.8	15.0	18.7	±20	29	769	12.7
JMSH1507AEQ	TO-263-3L	D2PAK	N	150	161	3.2	5.2	6.5	±20	540	4,320	68.0
JMSH1508AEQ	TO-263-3L	D2PAK	N	150	117	3.2	6.7	8.4	±20	265	3,395	47.0
JMSH1509AGQ	PDFN5x6-8L	SuperSO8	N	150	87	3.2	8.5	9.9	±20	331	2,181	30.0
JMSH1535AGQ	PDFN5x6-8L	SuperSO8	N	150	29	3.3	27.0	35.0	±20	48	760	12.3





## 汽车电池管理应用

捷捷微电子级MOSFET对汽车电池管理应用彰显独特的优势。

车规级MOSFET能提供极低导通阻抗产品，最小在0.56mΩ，以及兼容市面主流封装的先进封装架构，满足客户对大功率，高散热，低热阻的需求，如常用PDFN5x6-8L, PowerJE®7x8 (sTOLL兼容), PowerJE®10 x12 (TOLL兼容) 等。这些产品同时经过严格AEC-Q101 Rev-E测试，具备高可靠性，适合汽车恶劣工况需求。



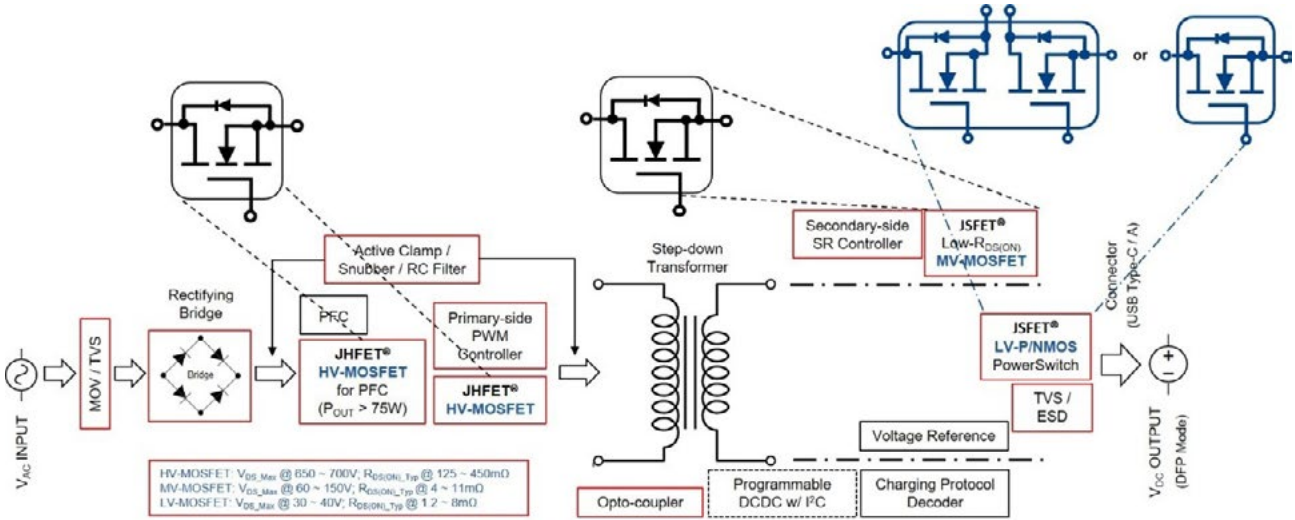
## 车规级 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th),Typ</sub> (V)	R <sub>DS(ON),Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON),Max</sub> @V <sub>GS</sub> =10V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)
JMSH040SAGQ	PDFN5x6-8L	SuperSO8	N	40	400.0	2.8	0.56	0.68	±20	864.0	7,445	107.0
JMSL040SAGQ	PDFN5x6-8L	SuperSO8	N	40	387.0	1.5	0.58	0.75	±20	506.0	7,654	114.0
JMSL0401BGQ	PDFN5x6-8L	SuperSO8	N	40	299.0	1.5	0.83	0.98	±20	726.0	5,495	80.0
JMSL0403AGQ	PDFN5x6-8L	SuperSO8	N	40	128.0	1.5	2.5	3.1	±20	79.0	1,424	22.0
JMSH0403AKQ	TO-252-3L	DPAK	N	40	108.0	2.8	3.3	3.9	±20	216.0	1,632	22.1
JMSL0402AKQ	TO-252-3L	DPAK	N	40	211.0	1.5	1.9	2.4	±20	338.0	3,252	50.0
JMSL0406AGQ	PDFN5x6-8L	SuperSO8	N	40	90.0	1.6	4.2	5.2	±20	36.0	1,204	17.9
JMSL0406AUQ	PDFN3x3-8L	PQFN 3x3	N	40	57.0	1.6	4.5	5.6	±20	36.0	1,204	17.9
JMSL0406AKQ	TO-252-3L	DPAK	N	40	78.0	1.6	4.7	5.6	±20	36.0	1,204	17.9
JMSL0406AGDQ	PDFN5x6-8L-D	-	N+N	40	49.0	1.6	5.5	6.9	±20	36.0	1,227	17.9
JMSL0402BGQ	PDFN5x6-8L	SuperSO8	N	40	158.0	1.6	1.9	2.5	±20	126.0	2,131	36.0
JMSL0402AGQ	PDFN5x6-8L	SuperSO8	N	40	183.0	1.6	1.6	2.0	±20	163.0	3,133	46.0
JMSL0401AGQ	PDFN5x6-8L	SuperSO8	N	40	198.0	1.6	1.3	1.7	±20	194.0	3,125	47.0
JMSH0406AKQ	TO-252-3L	DPAK	N	40	73.0	2.8	5.0	6.2	±20	96.0	1,027	15.2
JMSH0406AGQ	PDFN5x6-8L	SuperSO8	N	40	90.0	2.8	4.1	5.1	±20	96.0	1,027	14.9
JMSH0406AGDQ	PDFN5x6-8L-D	-	N+N	40	50.0	2.8	5.2	6.5	±20	96.0	1,027	14.9
JMSH0401AGQ	PDFN5x6-8L	SuperSO8	N	40	197.0	2.8	1.3	1.7	±20	194.0	3,015	42.0
JMSH0402AGQ	PDFN5x6-8L	SuperSO8	N	40	182.0	2.8	1.6	2.0	±20	194.0	3,020	41.0
JMSH0402AKQ	TO-252-3L	DPAK	N	40	170.0	2.8	2.0	2.5	±20	194.0	3,020	41.0
JMSH0402BGQ	PDFN5x6-8L	SuperSO8	N	40	166.0	2.8	2.0	2.5	±20	294.0	2,094	33.0
JMSH0403AGQ	PDFN5x6-8L	SuperSO8	N	40	121.0	2.8	2.7	3.4	±20	216.0	1,542	22.0
JMSH0403BGQ	PDFN5x6-8L	SuperSO8	N	40	145.0	2.8	2.2	2.8	±20	216.0	2,086	28.0
JMSH0401ATLQ	PowerJE®10x12	TOLL	N	40	337.0	2.8	1.0	1.25	±20	317.0	5,280	68.0
JMSH0401ATSQ	PowerJE®7x8	sTOLL	N	40	337.0	2.8	0.90	1.20	±20	441.0	5,214	66.0
JMSH0401BGQ	PDFN5x6-8L	SuperSO8	N	40	276.0	2.8	0.90	1.10	±20	441.0	5,280	68.0
JMSH0401CGQ	PDFN5x6-8L	SuperSO8	N	40	252.0	2.8	1.10	1.40	±20	600.0	5,304	71.0

# 快速充电器 QUICK CHARGER

输出功率从 18W 到 100W (甚至 120W或更大)、支持快充协议 (USB PD3.0/3.1, USB BC1.2, UFCS T/TAF 083-2022, Qualcomm QCxx, MediaTek PExxx, Huawei S/FCP, Oppo D/FCP, Samsung AFC, Apple 2.4A, ...)、配置一个或多个 USB Type-A 及 Type-C 输出接口的快充充电器日益普遍。它们可以一物多用, 同时为智能手机、平板、智能手表及笔记本电脑等万物互联数字化终端里面的锂电池快速充电。采用第三代半导体功率器件 (氮化镓 D/E-mode HEMT) 的设计, 体积小以及使用时温度不会烫手, 由于因近年多家世界排名前列的智能手机 OEM 不把充电器随着新款手机一起标配而形成曲棍球棒效应, 使得这类小巧的快充充电器成为市场主流。

市场上的快充充电器, 常用的交直流电源转换拓扑是 Flyback及 LLC。Flyback拓扑常见于功率比较小的设计, LLC拓扑则常见于功率较大及对交直流电源转换效率要求较高的设计。因为 BOM 相对 LLC 拓扑比较简单, ACF-Flyback 拓扑也开始被中/小功率的设计采用, 特别是初级使用高压氮化镓 HEMT 的设计。无论是那种拓扑, 快充充电器的内部结构示意图大概如下:



针对快充充电器的成用, 捷捷微电能提供完整的分立器件解决方案。比如, AC输入端防浪涌的MOV、TVS、钳制变压器漏感而对初级的高压MOSFET  $V_{DS\_Max}$  产生过压的快恢复整流管、原边PFC (75W以上的设计) 和匹配 PWM的高压 MOSFET、次级同步整流中/低压 MOSFETs、USB Type-A 及 Type-C端口的 低压MOSFETs及ESD保护等。

不论在初级使用的是传统的超结高压 MOSFET、或是日益受电路设计工程师及消费者追捧的氮化镓D/E-mode HEMT, 在拓扑的次级, 捷捷微电先进JHFET® 技术平台超结 (super-junction) 的高压MOSFETs在初级开关、先进JSFET® 技术平台的中/低压MOSFETs在同步整流和在 USB-C® 端口电流输出开关等位置, 都能提供稳定可靠而高功效的运作。

建立在JHFET技术平台的650V<sub>DS\_Max</sub> SJ N-MOSFETs, 导通阻抗 $R_{DS(ON)}$  低至169 mΩ、 $Q_g$  低至9.7nC、 $C_{iss}$  低至333pF, 所有产品均百分百通过 UIS 测试。建立在JSFET技术平台的30 ~ 150V<sub>DS\_Max</sub> SGT N-MOSFETs, 导通阻抗 $R_{DS(ON)}$  低至1.2mΩ、 $Q_g$  低至7.7nC、FOM 低至47, 所有产品均百分百通过 UIS 测试。凭借极低的  $C_{iss}$ 、 $C_{oss}$ 、 $C_{rss}$ 、 $Q_g$  和卓越的安全操作区域 (SOA) 等, 这些功率器件能更有效地解决在终端应用中存在的 软/硬开关、电感负载、EMI等难题。能够有如此突出的静态和动态电气特性, 是因为捷捷微电的自有知识产权JSFET及JHFET技术平台, 各项工艺参数早已跻身国际一流水平。

## 原边 PFC 及 PWM 高压 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Platform	Configuration	$V_{DS\_Max}$ (V)	$I_{D\_Max}$ (A)	$V_{GS(ch)}$ Typ (V)	$R_{DS(ON)\_Typ}$ @ $V_{GS}=10V$ (mΩ)	$R_{DS(ON)\_Max}$ @ $V_{GS}=10V$ (mΩ)	$V_{GS\_Max}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$Q_g\_Typ$ (nC)	FOM	Applicability
JMH65R190APLN	DFN8080-4L	-	SJ	N	650	17	3.5	169	190	±20	1,560	38.0	405	6,422	for $P_{OUT} > 100W$
JMH65R190AF	TO-220FP-3L	-	SJ	N	650	20	3.5	170	190	±20	1,560	38.0	405	6,460	for $P_{OUT} > 100W$
JMH65R290APLN	DFN8080-4L	-	SJ	N	650	10	3.5	262	290	±20	1,056	22.0	281	5,764	for $P_{OUT} \leq 100W$
JMH65R290ACFP	TO-220FP-NL	-	SJ	N	650	12	3.5	260	290	±20	1,056	22.0	281	5,720	for $P_{OUT} \leq 100W$
JMH65R430APLN	DFN8080-4L	-	SJ	N	650	10	3.5	370	430	±20	703	18.4	180	6,808	for $P_{OUT} \leq 65W$
JMH65R430AF	TO-220FP-3L	-	SJ	N	650	11	3.5	364	430	±20	703	18.4	180	6,698	for $P_{OUT} \leq 65W$
JMH65R430ACFP	TO-220FP-NL	-	SJ	N	650	11	3.5	364	430	±20	703	18.4	180	6,698	for $P_{OUT} \leq 65W$
JMH65R430AK	TO-252-3L	DPAK	SJ	N	650	11	3.5	370	430	±20	703	18.4	180	6,808	for $P_{OUT} \leq 65W$
JMH65R490AFFD	TO-220FP-3L	-	SJ	N	650	5	3.5	430	490	±20	677	20.0	180	8,600	for $P_{OUT} \leq 45W$
JMH65R980AFFD	TO-220FP-3L	-	SJ	N	650	4	3.5	895	980	±20	343	10.1	72	9,040	for $P_{OUT} \leq 20W$
JMH65R980AK	TO-252-3L	-	SJ	N	650	4	3.5	900	980	±20	333	9.7	80	8,730	for $P_{OUT} \leq 20W$

## 同步整流 中压 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Platform	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)	FOM	Applicability
JMSL0609AP	SOP-8L	SOP-8	SGT	N	60	14	1.7	7.5	9.5	±20	1,083	17.2	34	129	for P <sub>OUT</sub> < 65W
JMSL0609AG	PDFN5x6-8L	SuperSO8	SGT	N	60	43	1.5	7.2	9.4	±20	1,087	16.6	34	120	for P <sub>OUT</sub> < 65W
JMSL1003AG	PDFN5x6-8L	SuperSO8	SGT	N	100	135	1.6	2.8	3.4	±20	4,646	78.0	259	218	for P <sub>OUT</sub> ≥ 100W
JMSL1004BG	PDFN5x6-8L	SuperSO8	SGT	N	100	117	1.7	3.4	4.1	±20	3,709	13.9	20	47	for P <sub>OUT</sub> ≥ 100W
JMSL1006AG	PDFN5x6-8L	SuperSO8	SGT	N	100	108	1.9	4.7	5.9	±20	2,604	42.0	110	197	for P <sub>OUT</sub> ≥ 65W
JMSH1006AG	PDFN5x6-8L	SuperSO8	SGT	N	100	102	2.7	5.3	6.6	±20	2,369	38.0	110	201	for P <sub>OUT</sub> ≥ 65W
JMSL1008AG	PDFN5x6-8L	SuperSO8	SGT	N	100	93	1.7	6.0	7.6	±20	2,200	34.0	101	204	for P <sub>OUT</sub> < 65W
JMSL1009AG	PDFN5x6-8L	SuperSO8	SGT	N	100	75	1.7	7.0	8.2	±20	1,314	25.0	86	175	for P <sub>OUT</sub> < 65W
JMSL1010AG	PDFN5x6-8L	SuperSO8	SGT	N	100	58	1.9	8.0	10.0	±20	1,535	26.0	94	208	for P <sub>OUT</sub> < 65W
JMSL1018AG	PDFN5x6-8L	SuperSO8	SGT	N	100	35	1.9	14.5	18.2	±20	769	13.0	29	189	for P <sub>OUT</sub> < 65W
JMSL1018AP	SOP-8L	SOP-8L	SGT	N	100	8	1.9	15.8	19.8	±20	769	12.7	24	201	for P <sub>OUT</sub> < 30W
JMSH1207AG	PDFN5x6-8L	SuperSO8	SGT	N	120	94	3.0	5.6	7.0	±20	2,208	35.0	135	196	for P <sub>OUT</sub> ≥ 65W
JMSH1509AG	PDFN5x6-8L	SuperSO8	SGT	N	150	75	3.0	8.5	9.9	±20	2,181	30.0	231	255	for P <sub>OUT</sub> < 65W

## V<sub>BUS</sub> DFP 输出端 低/中压 MOSFET 产品推荐

Product Name	JJM Package	Compatible Industry-common Package	Platform	Configuration	V <sub>DS,Max</sub> (V)	I <sub>D,Max</sub> (A)	V <sub>GS(th)_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS</sub> =10V (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS</sub> =10V (mΩ)	V <sub>GS,Max</sub> (V)	E <sub>AS,Max</sub> (mJ)	C <sub>iss,Typ</sub> (pF)	Q <sub>g,Typ</sub> (nC)	FOM	Applicability
JMTQ080P03A	PDFN3x3-8L	PQFN 3x3	Trench	P	-30	-45	-1.5	5.8	7.3	±20	4,650	45.0	144	261	for I <sub>OUT</sub> ≥ 3A
JMTQ100P03A	PDFN3x3-8L	PQFN 3x3	Trench	P	-30	-40	-1.6	7.5	10.0	±20	3,564	37.0	121	278	for I <sub>OUT</sub> < 3A
JMSL0302AU	PDFN3x3-8L	PQFN 3x3	SGT	N	30	145	1.7	1.2	1.5	±20	2,975	39.0	101	47	for I <sub>OUT</sub> ≥ 5A
JMSL0302BU	PDFN3x3-8L	PQFN 3x3	SGT	N	30	135	1.6	1.5	1.9	±20	2,526	40.0	94	60	for I <sub>OUT</sub> ≥ 5A
JMSL0303AU	PDFN3x3-8L	PQFN 3x3	SGT	N	30	119	1.6	1.8	2.2	±20	2,091	32.0	61	58	for I <sub>OUT</sub> ≥ 5A
JMSL0310AU	PDFN3x3-8L	PQFN 3x3	SGT	N	30	60	1.7	4.0	5.0	±20	866	13.5	20	54	for I <sub>OUT</sub> < 5A
JMSL0315AU	PDFN3x3-8L	PQFN 3x3	SGT	N	30	43	1.7	7.0	8.8	±20	468	7.7	9	54	for I <sub>OUT</sub> < 3A
JMSL0315AUD	PDFN3x3-8L_D	-	SGT	N+N	30	36	1.7	8.8	11.0	±20	468	7.7	9	68	for I <sub>OUT</sub> ≤ 2A
JMSL0402AU	PDFN3x3-8L	PQFN 3x3	SGT	N	40	119	1.5	2.0	2.5	±20	2,131	36.0	126	72	for I <sub>OUT</sub> ≥ 5A
JMSL0403AU	PDFN3x3-8L	PQFN 3x3	SGT	N	40	99	1.6	2.5	3.1	±20	1,424	22.0	79	55	for I <sub>OUT</sub> ≤ 5A
JMSL0406AU	PDFN3x3-8L	PQFN 3x3	SGT	N	40	55	1.7	4.5	5.6	±20	1,204	17.9	36	81	for I <sub>OUT</sub> < 5A

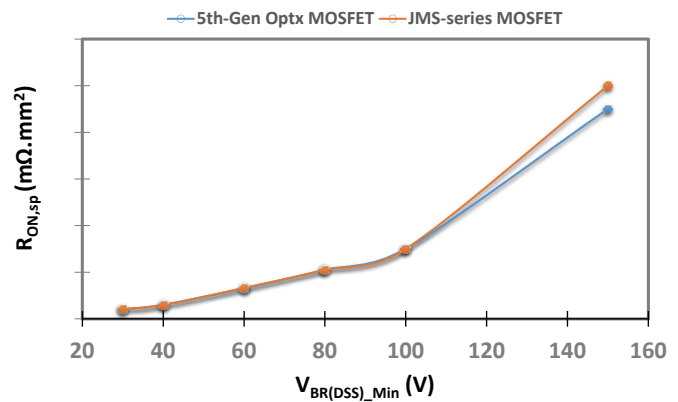
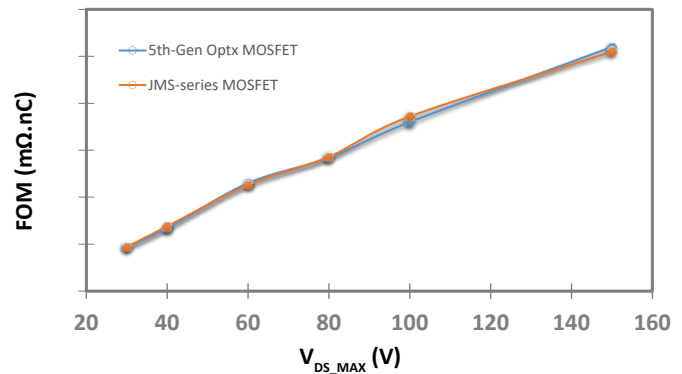
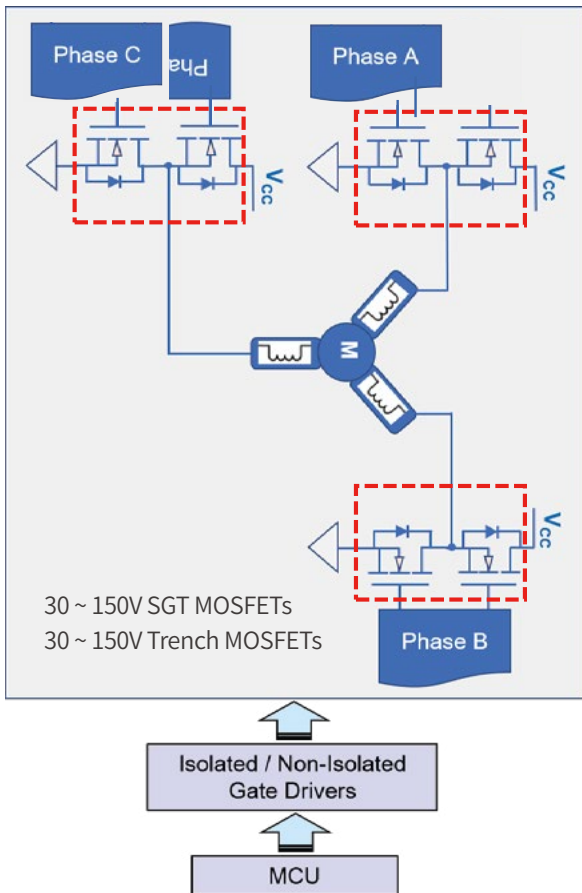
目前捷捷微电主要聚焦在消费类、电脑及周边、工业用、通信用、及车用等的终端市场。因为深知产品必需跟应用挂钩，捷捷微电一直努力贴近市场和客户，清楚认识那些 JSFET 及 JHFET 的参数和特性，能让客户的产品兼具高效能和长期可靠性，同时又保持高性价比。消费者对体积和重量的不断追求，因而移动 3C (computing, communications, consumer electronics) 终端的充电器越来越短小，有限的内壳空间使工作温度升高，造成充电器内部所用器件的稳定性和效能方面的要求极为严苛。

JSFET 及 JHFET 轻松解决了电路设计工程师所面临，合理成本和高电源转换效率这两个冲突的难题。JSFET 及 JHFET 采用先进封装如 PDFN3x3 / 5x6、TO-220 / 247 / 251 / 252 / 263、SOP-8 等，优化的框架和引接工艺不仅有效地增强热应力处理、降低热阻，同时也提升质量和可靠性，符合 RoHS 标准且不含卤素。

# 电机驱动 BLDC MOTOR DRIVING

捷微电 MOSFETs 广泛应用于电机驱动领域 如电动工具、风机、电动自行车、园林工具、吸尘器、电风扇等相关应用, 并具有如下的优势:

- 01 提供更加优的  $R_{DS(ON)}$  及  $E_{AS}$ , 有效降低系统温升和提高抗冲击能力
- 02 产品具有好的高频开关特性, 实现高效率, 有效降低系统温升, 提高系统的可靠性
- 03 耐压 30 ~ 150V $_{DS\_Max}$ , 内阻最低可达 0.55m $\Omega$  (JMSL030SAG) 及 0.57m $\Omega$  (JMSL040SAG), FOM 低至 47, 封装类型涵盖 PowerJE<sup>®</sup>10x12、PDFN3x3/5x6-8L、DFN2020-6、TO-220/247/251/252/263-3L、SOP-8L、SOT-23、SOT-23-3/6L 等
- 04 产品参数一致性好, 可靠性高
- 05 产品系列齐全, 可满足各类电机驱动对不同应用空间和规格的需求



**新能源自行车电机驱动**  
BLDC Motor Driving in e-Bike  
(18pcs of JMESH1004AC On-board)

## Benchmarking of MOSFETs for BLDC Application

Product Name	Vendor	Package	Configuration	$V_{DS\_Max}$ (V)	$I_{D\_Max}$ (A)	$R_{DS(ON)\_Typ}$ @ $V_{GS}=10V$ (m $\Omega$ )	$R_{DS(ON)\_Max}$ @ $V_{GS}=10V$ (m $\Omega$ )	$R_{DS(ON)\_Typ}$ @ $V_{GS}=4.5V$ (m $\Omega$ )	$R_{DS(ON)\_Max}$ @ $V_{GS}=4.5V$ (m $\Omega$ )	$V_{GS\_Max}$ (V)	$V_{GS(th)\_Typ}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$C_{oss\_Typ}$ (pF)	$C_{rss\_Typ}$ (pF)	$Q_{g\_Typ}$ (nC)	FOM
JMSL030SAG	JJ Micro.	PDFN5x6-8L	N	30	327	1.7	0.55	0.69	0.80	0.99	$\pm 20$	342	7,543	5,253	422.0	120.0	66
JMSL0302AG	JJ Micro.	PDFN5x6-8L	N	30	178	1.7	1.3	1.6	2.0	2.9	$\pm 20$	101	2,975	2,650	117.0	39.0	51
JMTK3002B	JJ Micro.	TO-252-3L	N	30	180	1.5	2.1	2.7	3.5	5.0	$\pm 20$	324	4,930	682	566.0	70.0	147
JMSL0401AG	JJ Micro.	PDFN5x6-8L	N	40	189	1.5	1.3	1.7	1.7	2.3	$\pm 20$	163	3,133	1,993	75.0	46.0	60
JMESH1002AC	JJ Micro.	TO-263-3L	N	100	270	2.7	1.8	2.3			$\pm 20$	720	9,623	2,091	1.2	155.0	279
JMESH1004AC	JJ Micro.	TO-220-3L	N	100	190	2.7	3.0	3.6			$\pm 20$	245	4,398	1,361	8.5	66.0	198
JMESH1004BC	JJ Micro.	TO-220-3L	N	100	139	2.7	3.5	4.2	-	-	$\pm 20$	151	3,433	905	13.0	57.2	200
JMESH1504AC	JJ Micro.	TO-220-3L	N	150	185	3.2	4.2	5.2	-	-	$\pm 20$	889	6,540	772	6.7	88.0	370



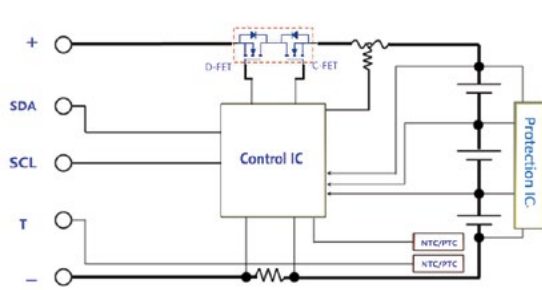
# ▶▶ 电池管理系统 BMS

随着社会生活水平日益发展, 电池包 (Battery Pack) 已充分呈现于人们日常生活中。在手机、智能穿戴、笔电、电动玩具、扫地机器人、电动非机动车、电动工具、无人机、机器人、移动电源、便携式储能器、新能源车等终端里, 电池包都不可或缺。电池管理系统 (BMS) 是决定电池包性能和效能的关键系统, 它的主要运作是: 实时采集、处理、存储电池组运行过程中的关键信息, 然後与外部设备交换信息; 过程中同时需要解决电池包里, 每组单元在安全性、可用性、工作寿命、放电时平衡负载、因应电池的材料特性有序无误地快速充电等带来的问题。

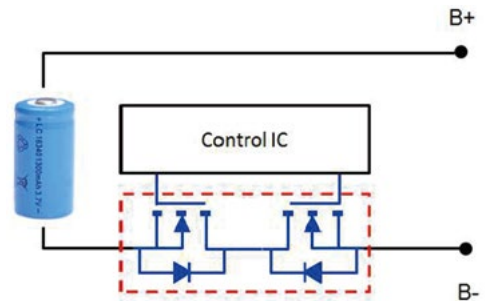
捷捷微电提供的中、低压功率MOSFETs, 广泛应用于上述终端里的电池管理系统 (BMS), 具有以下特性和独特优点:

- 01 单位元胞尺寸小于  $1\mu\text{m}$ , 芯片面积积极小化, 提高器件集成度
- 02 内阻及栅极电荷低, 器件导通及开关损耗优异
- 03 阈值电压一致性好, 生产时分档处理以支持多管并联应用
- 04 UIS 雪崩击穿能力高, 生产时100% 最后筛测
- 05 封装热阻低, 大电流持续加载能力强

## Application of MOSFETs in BMS



High-side Configuration



Low-side Configuration



DFN2020-6L TO-247-3L TO-252-3L

PDFN3x3-8L TO-251-3L

PDFN5x6-8L TO-220-3L

SOP-8L TO-263-3L

SOT-23 SOT-23-3/6L

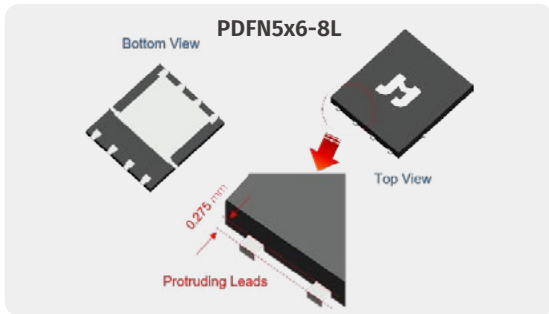
客户端 BMS 应用  
BMS in Li-Ion Battery Pack  
6pcs of JMTK3005 On-board

## Benchmarking of MOSFETs for BMS Application

Product Name	Package	Configuration	V <sub>DS_Max</sub> (V)	I <sub>D_Max</sub> (A)	V <sub>GSth_Typ</sub> (V)	R <sub>DS(ON)_Typ</sub> @V <sub>GS=10V</sub> (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS=10V</sub> (mΩ)	R <sub>DS(ON)_Typ</sub> @V <sub>GS=4.5V</sub> (mΩ)	R <sub>DS(ON)_Max</sub> @V <sub>GS=4.5V</sub> (mΩ)	V <sub>GS_Max</sub> (V)	E <sub>AS_Max</sub> (mJ)	C <sub>iss_Typ</sub> (pF)	C <sub>oss_Typ</sub> (pF)	C <sub>rss_Typ</sub> (pF)	Q <sub>g_Typ</sub> (nC)	FOM
JMTK90N02A	TO-252-3L	N	20	90	0.7	-	-	2.8	4.0	±12	110	3,200	460	445	-	-
JMTK75N02A	TO-252-3L	N	20	75	0.7	-	-	4.1	5.0	±12	56	2,500	407	386	-	-
JMTK3002B	TO-252-3L	N	30	180	1.5	2.1	2.7	3.5	5.0	±20	324	4,930	682	566	-	-
JMTK3003A	TO-252-3L	N	30	150	1.6	2.5	3.3	4.5	6.5	±20	225	3,500	500	431	-	-
JMTK3004A	TO-252-3L	N	30	100	1.5	2.9	4.0	4.8	6.5	±20	121	2,680	393	330	-	-
JMTK3005A	TO-252-3L	N	30	90	1.5	3.3	4.5	6.7	9.5	±20	95	2,100	326	282	-	-
JMTK3006B	TO-252-3L	N	30	70	1.5	4.8	6.0	7.5	12.0	±20	56	1,614	245	215	-	-
JMTK80N06A	TO-252-3L	N	60	80	3.0	5.3	7.0	-	-	±20	169	4,136	286	257	-	-
JMTK58N06B	TO-252-3L	N	60	58	1.7	7.5	10.0	10.0	14.0	±20	110	4,400	210	190	-	-
JMSH1002AE	TO-263-3L	N	100	270	2.7	1.6	2.0	-	-	±20	720	9,623	2,091	1	155	248
JMSH1002BE	TO-263-3L	N	100	258	2.7	2.1	2.6	-	-	±20	694	7,011	1,512	5	102	214
JMSH1004AE	TO-263-3L	N	100	190	2.7	3.0	3.6	-	-	±20	245	4,398	1,361	9	66	198
JMSH1004BE	TO-263-3L	N	100	139	2.7	3.5	4.2	-	-	±20	151	3,433	905	13	57	200
JMSH1008AE	TO-263-3L	N	100	95	2.8	6.8	8.0	-	-	±20	101	1,920	445	7	30	204
JMSH1305AE	TO-263-3L	N	135	147	3.0	4.3	5.0	-	-	±20	540	4,307	611	4	61	262
JMSH1504AE	TO-263-3L	N	150	185	3.2	3.9	4.9	-	-	±20	889	6,540	772	7	88	343
JMSH1507AE	TO-263-3L	N	150	115	3.0	5.2	6.5	-	-	±20	540	4,320	535	7	68	354
JMSH1509AE	TO-263-3L	N	150	90	3.0	9.0	10.9	-	-	±20	211	3,609	348	5	47	423
JMSH1516AE	TO-263-3L	N	150	61	3.2	14.5	16.9	-	-	±20	135	1,603	196	8	23	334



## 新一代 P-沟道 JPFET® 搭配先进 PDFN 封装成就国际领先性能



2022年7月1日 捷捷微电 特此专题推出新一代100V P沟道SGT MOSFET, 比起上一代设计, FOM性能改善20%, 实现国际领先。先进PDFN3x3-8L及PDFN5x6-8L薄型封装, 比传统SOP-8L及DPAK封装, 面积缩小64% 及48%, 高度降低45%及55%, 极为适合紧凑型终端设计。同时, PDFN5x6-8L的引脚具低应力且长达0.275mm, 极大地改善了自动光学检测 (AOI) 印刷电路板组装 (PCBA) 的焊点良率, 进一步保证终端的稳定工作和长期可靠性。

Product Name	Company	JJM Package	Compatible Industry-common Package	$V_{DS\_Max}$ (V)	$I_{D\_Max}$ (A)	$V_{GS(th)\_Typ}$ (V)	$R_{DS(ON)\_Typ}$ @ $V_{GS}=10V$ (m $\Omega$ )	$R_{DS(ON)\_Max}$ @ $V_{GS}=10V$ (m $\Omega$ )	$V_{GS\_Max}$ (V)	$E_{AS\_Max}$ (mJ)	$C_{iss\_Typ}$ (pF)	$Q_g\_Typ$ (nC)	FOM
JMPL1050AU	JJM	PDFN3x3-8L	PQFN3x3	-100	-26.0	-2.0	38.0	50.0	±20	109	1,412	20.0	760
Sxxx71DN	US-Vxxx		PowerPAK1212-8S	-100	-23.0	-2.0	47.0	59.0	±20	31	1,050	20.0	940
Fxxx86139P	US-oxxx		WDFN8 3.3x3.3	-100	-15.0	-3.0	56.0	67.0	±25	121	1,001	16.0	896
JMPL1050AG	JJM	PDFN5x6-8L	SupperSO8	-100	-27.0	-2.0	36.0	50.0	±20	109	1,412	20.0	720
JMPL1050AK	JJM	TO-252-3L	DPAK	-100	-30.0	-2.0	37.0	50.0	±20	109	1,412	20.0	740
JMPL1050AY	JJM	SOT-223-3L	SOT-223	-100	-9.7	-2.0	40.0	52.0	±20	109	1,412	20.0	800
JMPL1050AP	JJM	SOP-8L	SOP-8	-100	6.3	-2.0	36.0	50.0	±20	109	1,412	20.0	720

100V P沟道 MOSFET 的驱动电路相比N沟道MOSFET更加简单, 满足超性能运算 (HPC)、工业5.0 (IE)、车载电子 (Autonomous Driving System, ADS) 后装市场的「高端负载、防反接电路、电池反向保护、DC 电机驱动、DC-DC降压转换的高边开关」等应用对系统长期稳定运作, 狭窄应用空间、及减少电路关键故障点的不断需求。

新一代P沟道 JPFET®性能达国际领先水平, 主要电气参数如 $R_{DS(ON)\_Typ}$  和 FOM均优于国际一线半导体 IDM 同类产品。其中JMPL1050AU采用薄小型PDFN3x3-8L封装, 在 $V_{GS}=10V$ 条件下, 器件的 $R_{DS(ON)\_Typ}$  及 FOM测量值分别低至 38m $\Omega$  / 760, 均为国际领先水平。此外, 一流的线性模式 / 安全工作区 (SOA) 特性, 使器件在大电流的工作状态下, 仍能实现安全可靠的运作。极低的导通电阻有助于提高运行效能, 降低系统成本, 并延长器件的使用寿命。



捷捷微电 功率MOSFET市场总监 樊君:「新一代的P沟道 JPFET 系列, 提供插件式和新型贴片式两类高质量封装, 完美满足客户在 40 ~ 72V 等工作电压的应用。在占空比少于30%的DC-DC降压转换中, JMPL1050AU应该是当下业界在高电能转换效率、简单驱动电路、PCBA、长期安全可靠性各方面考量下, 最好的选择之一。捷捷微电将持续开发多个耐压范围、性能优越的P 沟道 SGT MOSFETs, 以满足新能源、超性能运算和车载电子等终端对功率器件的需求。」

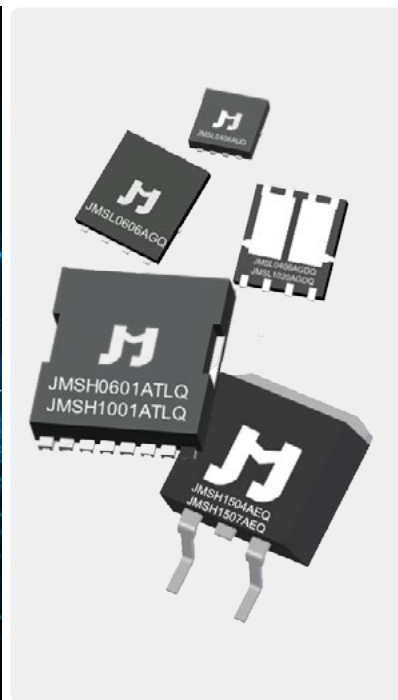
- 捷捷微电销售部
- 合约代理商
- 相关商务渠道

目前新一代P沟道 JPFET® 已规模量产, 样品可向 捷捷微电 销售部、合约代理商、或相关商务渠道申请。产品规格书, 辅助系统电路设计的资料如 POD (package outline drawing)、仿真模型 H-Spice 及 P-Spice 等具体信息, 均可直接在官网浏览或下载 <https://www.jjwdz.com/about/pronews/>

# ▶ 领先产品介绍 LEADING PRODUCT INTRODUCTION

## 百余款车规级 -100 ~ 650V JSFET®

广泛应用于汽车市场



百余款车规级 MOSFETs, 芯片的设计制造及成品的封装测试, 皆在符合 IATF 16949 品质管理的工厂完成。每个器件也通过三批次、符合 AEC-Q101 标准的长期可靠性验证。优异的关键电气参数如导通电阻 (0.56 ~ 820.0mΩ)、栅极电荷 (5.3 ~ 163.0nC)、FOM (55 ~ 354) 等, 性能不输欧美大厂, 已广泛被汽车前装及后装市场接受並大规模出货。

为实现与先进芯片的有机匹配, 保证性能与高可靠性, 在 -55 ~ 175°C 温度区间内保持长期稳定工作, PowerJE®10x12, PDFN3x3/5x6-8L/-D及 TO-252/263-3/7L的封装, 从框架到贴芯工艺、线材、焊接工艺等, 均采用 MSL1 等级及低机械温度应力材料。所有车规级SGT MOSFETs 皆不含卤素, 且符合 RoHS 要求。

### Market Applications

- 01 直流升压驱动: 资讯娱乐面板内 mini/LED 背光、内饰环境 LED、矩阵 LED 车前照灯
- 02 半/全桥功率级: 小/中功率 DC 及 BLDC 马达驱动 (车身控制模组、油泵、电子助力转向)、Qi 兼容无线充电板
- 03 高/低侧电源开关: 车载高性能运算 (GW, DC/DC)、副边同步整流
- 04 USB PD 3.0/3.1兼容 USB Type-C® 电源输出端: V<sub>BUS</sub> 输出开关
- 05 负载开关: 传统及新能源车的各种母线系统的电子设备

## Application Circuits

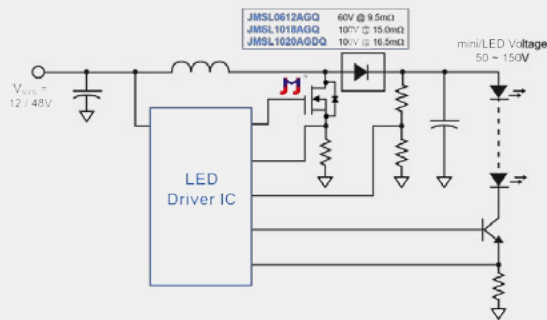


Figure 1: DC/DC Boost in mini/LED Backlighting

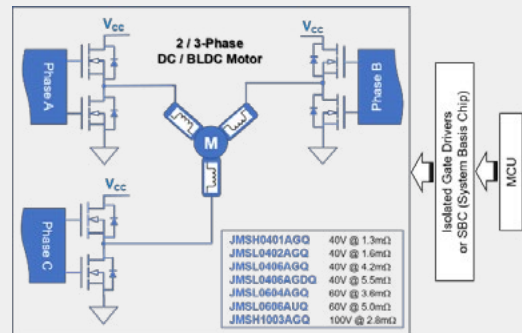


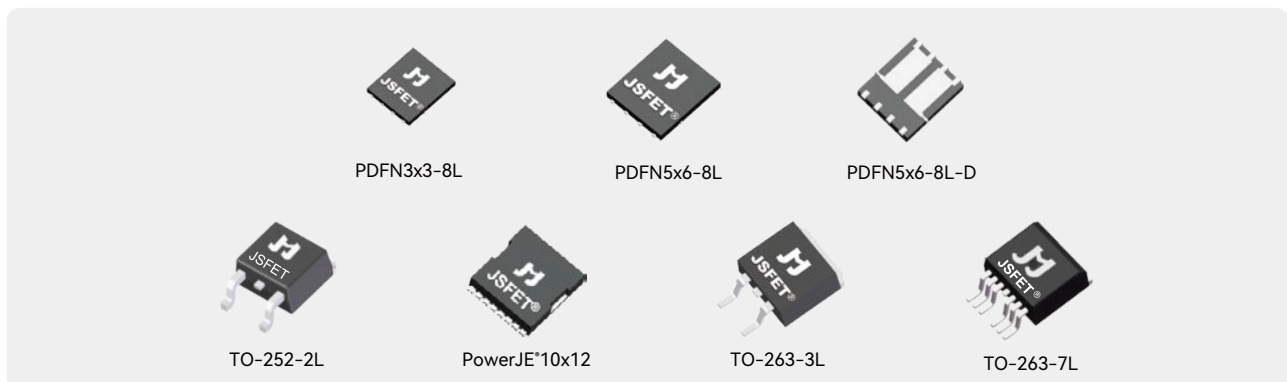
Figure 2: DC/BLDC Motor Driving

These 40 ~ 150V SGT MOSFETs are well suited for applications inside automobiles. Their long-term reliability were tested per AEC-Q101 quality standards. JMSL0406AGQ and its dual-die variant JMSL0406AGDQ are popular in body control module (BCM) for use cases like low-power DC motor driving. With  $R_{DS(ON)}$  down to 1.3m $\Omega$ , JMSH041AGQ fits the power efficiency requirement of mid/high-power DC motors. Typical applications are: multi-way power seat, power tailgate, centralized door lock, ESC (electronic stability control). At  $V_{DS\_Max} = 100V$  and assembled in the low-profile PDFN5x5-8L package, JMSL1018AGQ is good for LED backlighting in flat panel display of the infotainment/ADAS unit. In contrast, JMSL1020AGDQ drives two strings of high-brightness LEDs simultaneously for backlighting in larger panel.

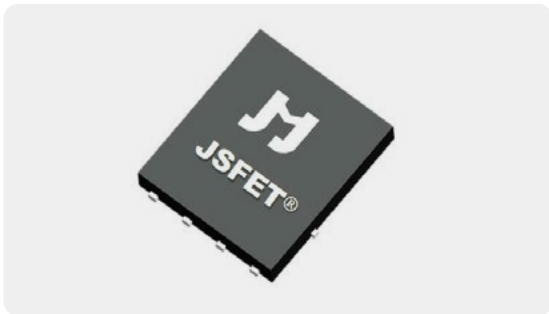
## Shipping Information

Package	# of Pins	Media	Quantity (pcs)
PowerJE®10x12	8	13-inch Reel	2000
PDFN3x3-8L	8	13-inch Reel	3,000
PDFN5x6-8L	8	13-inch Reel	3,000
PDFN5x6-8L-D	8	13-inch Reel	3,000
TO-252-3L	3	13-inch Reel	3,000
TO-263-3L	3	13-inch Reel	800
TO-263-7L	7	13-inch Reel	800

Samples & production quantities of the Q-grade 40-150V JSFET are available from sales\_sh@jjwdz.com and authorized sales distributors.



## 捷捷微电 发布先进 PowerJE®10x12 封装及国内领先 SGT MOSFET



2022 年 1 月 26 日 捷捷微电 特此专题介绍自主研发的高功率薄型封装, PowerJE®10x12 已进入规模化量产。此封装符合 JEDEC 标准 MO-299B, 同时兼容国际大厂如 Infineon 及 Onsemi 的同类 TOLeadLess 封装, 并通过严苛的一千次温度循环 (-55 ~ 150°C) 可靠性测试。相比传统的 TO-263-3L 封装, 面积少了 20%、高度降低了 45%。在大幅度减少占用空间的同时, 有效的提高功率密度, 适合极为紧凑的终端设计。热阻表现优越而至散热效果更好, 进一步保证器件的长期可靠性。

Bench-marking	Company	Package	$V_{DS\_Max}$ (V)	$R_{DS(ON)\_Typ}$ @ $V_{GS}=10V$ (mΩ)	$R_{DS(ON)\_Max}$ @ $V_{GS}=10V$ (mΩ)	$E_{AS\_Max}$ (mJ)	$C_{ISS}$ (pF)	$C_{OSS}$ (pF)	$C_{rSS}$ (pF)	$Q_g$ (nC)
JMSH1001ATL	JieJie Micro.	PowerJE®10x12	100	1.30	1.60	1.250	9,623	2,091	1.2	155
AOxL6691x	US - AOx	TOLLA	100	1.40	1.70	405	12,500	3,190	55.0	155
IPx015N10Nx	EU - Inxx	PG-HSOF-8	100	1.30	1.50	775	12,000	1,800	80.0	169
FDxL0200N1xx	US - Onxx	TO-LL 8L	100	1.50	2.00	352	6,970	3,950	29.0	95

因应客户对性能及 BOM (bill of material) 空间的需求日渐提升, 捷捷微电同时推出 N 沟道含自主知识产权 JSFET® 系列的 JMSH1001ATL ( $V_{DS\_Max} = 100V$ ) 和 JMSH1504ATL ( $V_{DS\_Max} = 150V$ ), 两者均采用先进 PowerJE®10x12 封装。在  $V_{GS}=10V$  条件下, 器件的  $R_{DS(ON)\_Typ}$  及 FOM 测量值分别是  $1.3m\Omega / 202$  (JMSH1001ATL) 及  $3.3m\Omega / 290$  (JMSH1504ATL)。其中 JMSH1001ATL 的电气特性, 更为国内领先水平、与欧美日同类产品不遑多让。此外, 一流的线性模式 / 安全工作区 (SOA) 特性, 使器件在大电流的工作状态下, 仍能实现安全可靠的运作。极低的导通电阻有助于提高运行效能, 降低系统成本, 并延长器件的使用寿命。这两款产品已经广泛应用于电动工具、轻型电动车辆、光伏储能逆变器、5G 通信及 PoE++ 等终端。



捷捷微电 功率分立器件市场总监 樊君:「JMSH1001ATL 结合捷捷微电研发团队设计的芯片、由通过 IATF 16949 认证的晶圆厂制造、再经捷捷微电车规级先进封装产线实现 PowerJE®10x12 组装测试, 电器特性比肩国际一线半导体 IDM 大厂, 有效实现了同类产品的国产化高端突破。该器件不仅具有超优的热导性能、低封装寄生电感效应, 且可处理高达 375A 的电流, 特别适用于那些在 BOM (bill of material) 空间、电气性能和器件长期可靠性皆同样有高需求的应用。」

- 捷捷微电销售部
- 合约代理商
- 相关商务渠道

目前这两款产品已规模量产, 样品可向 捷捷微电 销售部、合约代理商、或相关商务渠道申请。产品规格书, 辅助系统电路设计的资料如 POD (package outline drawing)、仿真模型 H-Spice 及 P-Spice 等具体信息, 均可直接在官网浏览或下载 <https://www.jjwdz.com/about/pronews/>

## 体系证书 SYSTEM CERTIFICATION



**职业健康安全管理体系认证证书**  
Occupational Health and Safety Management System Certificate



**环境管理体系认证证书**  
Environmental Management System Certificate



**IECQ 符合性证书**  
IECQ Certificate of Conformity



**生产质量管理证书**  
Production Quality Management Certificates



**IATF 16949:2016**



**ISO 9001:2015**



## 可靠性测试标准 LONG-TERM PRODUCT RELIABILITY

### 消费类等级 Consumer Level

Test Item	Description	Test Conditions	Duration	DUT Quantity
PreCon	Pre-conditioning & IR Reflow (SMT-type DUTs only)	Bake-out for 24 hrs.; $T_A = 125^\circ\text{C}$ ; Moisture Soak: {MSL1 @ $[T_A = 85^\circ\text{C}, \text{RH} = 85\%]$ for 168 hrs.}; or {MSL3 @ $[T_A = 30^\circ\text{C}, \text{RH} = 60\%]$ for 192 hrs.}; IR Reflow for 3 cycles: 1 cycle {preheat zone @ $>185^\circ\text{C}$ -> main heat zone @ $260 (+/-0)^\circ\text{C}$ for at least 30s} for $t = 180\text{s}$ ; JESD22-A113	Executed before the following tests: C-SAM (22 DUTs), TC, PC, H <sup>3</sup> TRB or HAST, IOL	330 Devices
HTRB	High Temperature Reverse Bias	$T_J = 150^\circ\text{C}$ ; Reverse Bias = Specification Limit x 80%; JESD22-A108	500 Hrs	77 Devices
HTGB	High Temperature Gate Bias	$T_J = 150^\circ\text{C}$ ; Gate Bias = Specification Limit x 100%; JESD22-A108	500 Hrs	77 Devices
PC (AC)	Pressure Cooker (Auto-clave)	$T_A = 121 \pm 2^\circ\text{C}$ ; RH = 100%, P = 15psi; Bias = None; JESD22-A102	96 Hrs	77 Devices (pre-conditioned)
TC	Temperature Cycling	$T_A = \{[-55^\circ\text{C} @ 15\text{min.}] \leftrightarrow [150^\circ\text{C} @ 15\text{min.}]\}$ per 1-hr cycle (air-to-air); Bias = None; JESD22-A104	500 Cycles	77 Devices (pre-conditioned)
H <sup>3</sup> TRB	High Humidity High Temperature Reverse Bias	$T_A = 85^\circ\text{C}$ ; RH = 85%; 80% rated $V_{DS\_MAX}$ up to 100V; JESD22-A101	1,000 Hrs	77 Devices (pre-conditioned)
HAST	Highly Accelerated Temperature & Humidity Stress	$T_A = 130^\circ\text{C}$ ; RH = 85%; $V_{DS} = \pm 80\% V_{DS\_MAX}$ up to 42V; P = 33.3 psi JESD22-A110	96 Cycles	77 Devices (pre-conditioned)
IOL	Intermittent Operating Life	$T_A = 25^\circ\text{C}$ Devices powered to ensure $\Delta T_J > 100^\circ\text{C}$ (not to exceed Absolute Maximum Rating) MIL-STD-750 M1037	10,000 Cycles	77 Devices (pre-conditioned)



## 工业类等级 Industrial Level

Test Item	Description	Test Conditions	Duration	DUT Quantity
PreCon	Pre-conditioning & IR Reflow (SMT-type DUTs only)	Bake-out for 24 hrs.: $T_A = 125^\circ\text{C}$ ; Moisture Soak: {MSL1 @ [ $T_A = 85^\circ\text{C}$ , RH = 85%] for 168 hrs.} or {MSL3 @ [ $T_A = 30^\circ\text{C}$ , RH = 60%] for 192 hrs.}; IR Reflow for 3 cycles: 1 cycle {preheat zone @ $>185^\circ\text{C}$ -> main heat zone @ $260 (+5/-0)^\circ\text{C}$ for at least 30s} for $t = 180\text{s}$ ; JESD22-A113	Executed before the following tests: C-SAM (22 DUTs), TC, PC, H <sup>3</sup> TRB or HAST, IOL	330 Devices
HTRB	High Temperature Reverse Bias	$T_J = 150^\circ\text{C}$ Reverse Bias = Specification Limit x 100%; JESD22-A108	1,000 Hrs	77 Devices
HTGB	High Temperature Gate Bias	$T_J = 150^\circ\text{C}$ Gate Bias = Specification Limit x 100%; JESD22-A108	1,000 Hrs	77 Devices
PC (AC)	Pressure Cooker (Auto-clave)	$T_A = 121 \pm 2^\circ\text{C}$ ; RH = 100%, P = 15psi; Bias = None; JESD22-A102	96 Hrs	77 Devices (pre-conditioned)
TC	Temperature Cycling	$T_A = \{[-55^\circ\text{C} @ 15\text{min.}] \leftrightarrow [150^\circ\text{C} @ 15\text{min.}]\}$ per 1-hr cycle (air-to-air); Bias = None; JESD22-A104	1,000 Cycles	77 Devices (pre-conditioned)
H <sup>3</sup> TRB	High Humidity High Temperature Reverse Bias	$T_A = 85^\circ\text{C}$ ; RH = 85%; 80% rated $V_{DS\_MAX}$ up to 100V; JESD22-A101	1,000 Hrs	77 Devices (pre-conditioned)
HAST	Highly Accelerated Temperature & Humidity Stress	$T_A = 130^\circ\text{C}$ ; RH = 85%; $V_{DS} = \pm 80\%$ $V_{DS\_MAX}$ up to 42V; P = 33.3 psi JESD22-A110	96 Hrs	77 Devices (pre-conditioned)
IOL	Intermittent Operating Life	$T_A = 25^\circ\text{C}$ Devices powered to ensure $\Delta T_J > 100^\circ\text{C}$ (not to exceed Absolute Maximum Rating) MIL-STD-750 M1037	15,000 Cycles	77 Devices (pre-conditioned)

## 汽车类等级 Automotive Level

Test Item	Description	Test Conditions	Duration	DUT Quantity
PreCon	Pre-conditioning & IR Reflow (SMT-type DUTs only)	Bake-out for 24 hrs.: $T_A = 125^\circ\text{C}$ ; Moisture Soak: {MSL1 @ [ $T_A = 85^\circ\text{C}$ , RH = 85%] for 168 hrs.} or {MSL3 @ [ $T_A = 30^\circ\text{C}$ , RH = 60%] for 192 hrs.}; IR Reflow for 3 cycles: 1 cycle {preheat zone @ $>185^\circ\text{C}$ -> main heat zone @ $260 (+5/-0)^\circ\text{C}$ for at least 30s} for $t = 180\text{s}$ ; JESD22-A113	Executed prior to the following tests: C-SAM, TC, PC, H <sup>3</sup> TRB or HAST, IOL	3 Lots x 330 Devices
HTRB	High Temperature Reverse Bias	$T_J = 175^\circ\text{C}$ ; Reverse Bias = Specification Limit x 100%; JESD22-A108	1,000 Hrs	3 Lots x 77 Devices
HTGB	High Temperature Gate Bias	$T_J = 175^\circ\text{C}$ ; Reverse Bias = Specification Limit x 100%; JESD22-A108	1,000 Hrs	3 Lots x 77 Devices
PC (AC)	Pressure Cooker (Auto-clave)	$T_A = 121 \pm 2^\circ\text{C}$ ; RH = 100%, P = 15psi; Bias = None; JESD22-A102	96 Hrs	3 Lots x 77 Devices (pre-conditioned)
TC	Temperature Cycling	$T_A = \{[-55^\circ\text{C} @ 15\text{min.}] \leftrightarrow [150^\circ\text{C} @ 15\text{min.}]\}$ per 1-hr cycle (air-to-air); Bias = None; JESD22-A104	1,000 Cycles	3 Lots x 77 Devices (pre-conditioned)
H <sup>3</sup> TRB	High Humidity High Temperature Reverse Bias	$T_A = 85^\circ\text{C}$ ; RH = 85%; 80% rated $V_{DS\_MAX}$ up to 100V; JESD22-A101	1,000 Hrs	3 Lots x 77 Devices (pre-conditioned)
HAST	Highly Accelerated Temperature & Humidity Stress	$T_A = 130^\circ\text{C}$ ; RH = 85%; $V_{DS} = \pm 80\%$ $V_{DS\_MAX}$ up to 42V; P = 33.3 psi JESD22-A110	96 Hrs	3 Lots x 77 Devices (pre-conditioned)
IOL	Intermittent Operating Life	$T_A = 25^\circ\text{C}$ Devices powered to ensure $\Delta T_J > 100^\circ\text{C}$ (not to exceed Absolute Maximum Rating) MIL-STD-750 M1037	15,000 Cycles	3 Lots x 77 Devices (pre-conditioned)

# ▶ 插件产品包装量与对应尺寸 TH PACKING INFORMATION

Package		Quantity (pcs)	CBM (cm <sup>3</sup> )
SOT-89-3L	Small box	10,000	21 x 21 x 21
	Carton box	40,000	45 x 44.5 x 23.2
TO-251-3L	Empty Tube	-	-
	Tube	80	53.6 x 2.0 x 0.54
	Small box	4,950	55.5 x 16 x 4.8
	Carton box	29,700	55.5 x 33.5 x 21.5
TO-251L-3L	Empty Tube	-	-
	Tube	80	53.6 x 2.0 x 0.54
	Small box	4,950	55.5 x 16 x 4.8
	Carton box	29,700	55.5 x 33.5 x 21.5
TO-220-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-220AS-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-220C-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-220FA-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-220FP-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-220FP-NL	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-262-3L	Empty Tube	-	-
	Tube	50	53 x 3.3 x 0.7
	Small box	1,000	55 x 14 x 4.5
	Carton box	5,000	57 x 26 x 16
TO-247-3L	Empty Tube	-	-
	Tube	30	53 x 4.1 x 0.75
	Small box	450	52 x 13 x 5
	Carton box	2,250	55 x 28 x 18
TO-247PS-3L	Empty Tube	-	-
	Tube	30	53 x 4.1 x 0.75
	Small box	450	52 x 13 x 5
	Carton box	2,250	55 x 28 x 18



# ▶ 贴片产品包装量与对应尺寸 SMD PACKING INFORMATION

Package		Quantity (pcs)	CBM (cm <sup>3</sup> )
DFN1006-3L	Small box	100,000	21 x 21 x 21
	Carton box	400,000	45 x 45 x 24
DFN2020-6L	Small box	30,000	18.5 x 18.5 x 14
	Carton box	180,000	46 x 40 x 21
U-DFN2020-6L	Small box	30,000	18.5 x 18.5 x 14
	Carton box	180,000	46 x 40 x 21
DFN3333-8L	Small box	10,000	36.6 x 34.1 x 5.4
	Carton box	50,000	37.5 x 30 x 35.5
TO-220FP-NL	Empty Tube	-	-
	Tube	50	53.0 x 3.3 x 0.7
	Small box	1,000	56.5 x 16.5 x 5.1
	Carton box	5,000	58 x 28.5 x 18.5
DFN8080-4L	Empty Tube	-	-
	Reel	3,000	13 inch
	Small box	6,000	36.6 x 34.1 x 5.4
DFN3030-8L	Carton box	300,000	37.5 x 30.0 x 35.5
	Small box	10,000	36.6 x 34.1 x 5.4
DFN5060-8L	Carton box	50,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PDFN3x3-8L	Carton box	15,000	37.5 x 30.0 x 35.5
	Small box	10,000	36.6 x 34.1 x 5.4
PDFN3x3-8L-D	Carton box	50,000	37.5 x 30 x 35.5
	Small box	10,000	36.6 x 34.1 x 5.4
PDFN5x6-8L	Carton box	15,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PDFN5x6-8L-D	Carton box	15,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PDFN5x6-8L-W	Carton box	15,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PowerJE®7x8 (sTOLL)	Carton box	15,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PowerJE®8x8	Carton box	15,000	37.5 x 30 x 35.5
	Small box	3,000	36.6 x 34.1 x 5.4
PowerJE®10x12 (TOLL)	Carton box	10,000	37.5 x 30 x 35.5
	Small box	2,000	36.6 x 34.1 x 5.4
SOT-23	Carton box	30,000	21 x 21 x 21
	Small box	120,000	44 x 44 x 23
SOT-23-3L	Carton box	120,000	44 x 44 x 23
	Small box	30,000	21 x 21 x 21
SOT-23-6L	Carton box	120,000	44 x 44 x 23
	Small box	30,000	21 x 21 x 21
SOT-223-3L	Carton box	40,000	36.5 x 36 x 25.5
	Small box	8,000	35 x 34 x 5
SOT-323-3L	Carton box	180,000	44 x 44 x 23
	Small box	45,000	21 x 21 x 21
SOT-363-6L	Carton box	180,000	44 x 44 x 23
	Small box	45,000	21 x 21 x 21
SOT-523-3L	Carton box	180,000	44 x 44 x 23
	Small box	30,000	21 x 21 x 21
SOT-563-6L	Carton box	180,000	44 x 44 x 23
	Small box	30,000	21 x 21 x 21
SOT-723-3L	Carton box	180,000	44 x 44 x 23
	Small box	45,000	21 x 21 x 21
TO-252-3L	Empty Tube	-	-
	Carton box	25,000	36.5 x 36 x 25.5
	Small box	2,500	35 x 34 x 5
TO-263-3L	Empty Tube	-	-
	Carton box	4,000	36.5 x 36 x 25.5
	Small box	800	35 x 34 x 5
	Tube	50	53 x 3.3 x 0.7
TO-263-7L	Empty Tube	-	-
	Carton box	4,000	36.5 x 36 x 25.5
	Small box	800	35 x 34 x 5
	Tube	50	53 x 3.3 x 0.7
SOP-8	Carton box	48,000	37 x 37 x 36
	Small box	8,000	34 x 33 x 5.1
TSSOP-8	Carton box	10,000	34 x 33 x 5.1
	Small box	60,000	37 x 37 x 36

# ▶ 长期可靠性检测

LONG-TERM RELIABILITY

实验室 LABORATORY



HAST/HTRB



XRF Coating Thickness Gauge



TC



HTRB



IOL



High Temperature Solder Re-flow Furnace



PC/Auto-clave

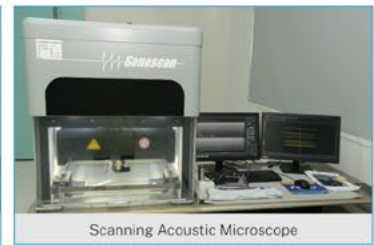
# ▶ 产品失效分析

FAILURE ANALYSIS

实验室 LABORATORY



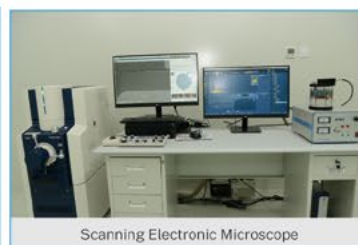
Laser Opener/Cutter



Scanning Acoustic Microscope



Chamber of Wet Chemical Decapsulation



Scanning Electronic Microscope



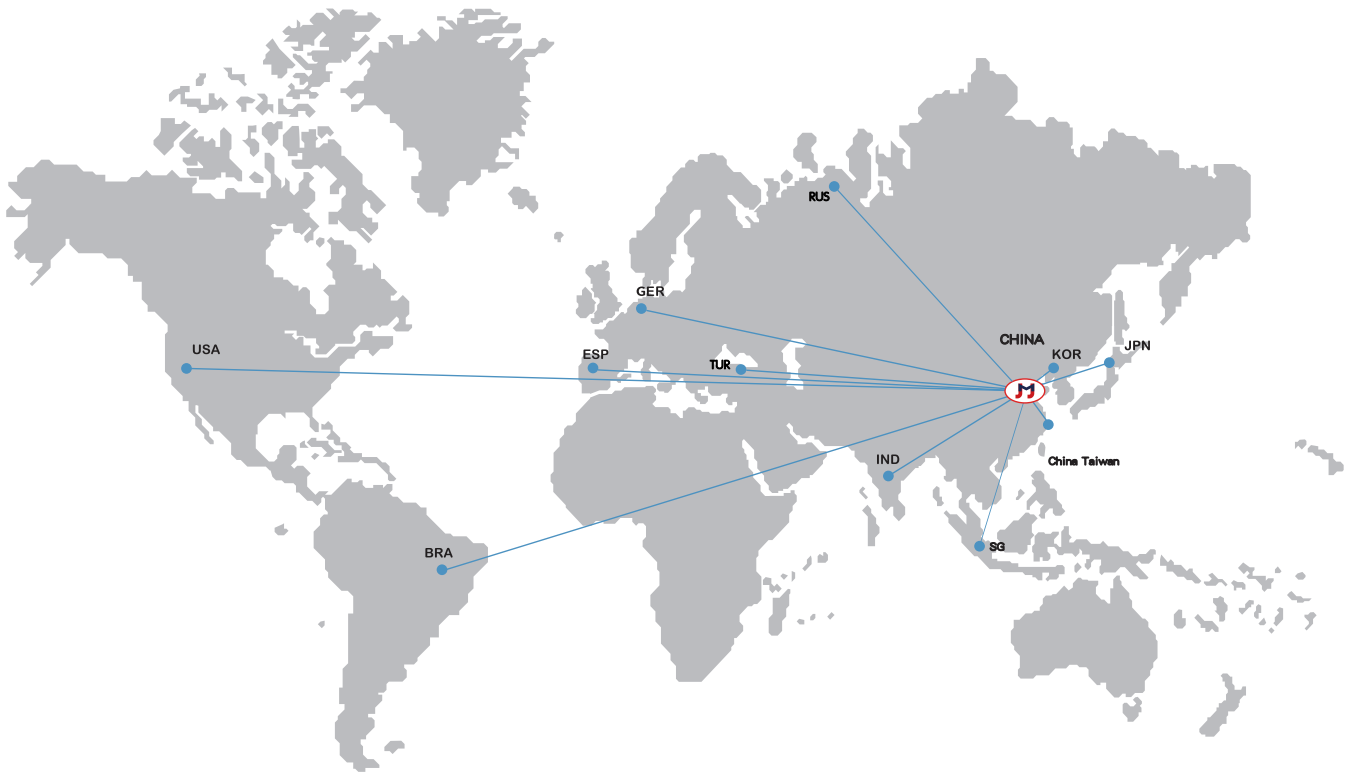
Precision Lapping & Polishing Machine



High Resolution X-ray Inspection System



3-Axis Measuring Microscope



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