

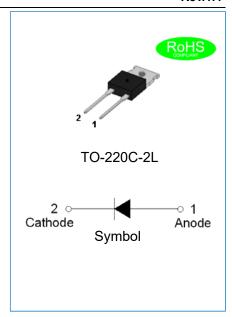
JIEJIE MICROELECTRONICS CO., LTD.

JECR0802CL EPI HYPERFAST RECOVERY RECTIFIER

Rev.1.4

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Hyperfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- Applications for output rectifiers in high-frequency switched-mode power supplies



MECHANICAL DATA

- ♦ Case: TO-220C-2L molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2 gram

ABSOLUTE MAXIMUM RATING (Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JECR0802CL	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	200	V	
Maximum RMS voltage	V _{RMS}	140	V	
Maximum DC blocking voltage	V _{DC}	200	V	
Maximum average forward current at T _{mb} =128°C	I _{F(AV)}	8	Α	
Peak forward surge current: 10ms single half sine-wave superimposed on rated load		80	_	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	- I _{FSM}	88	Α	
Junction temperature and storage temperature range	T_{j} , T_{stg}	-55 to +150	$^{\circ}$ C	



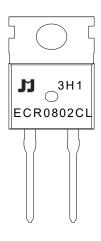
ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =8A,T _j =25℃		-	0.92	1.05	V
	I _F =20A,T _j =25℃	V _F	-	1.1	1.3	
	I _F =8A,T _j =150℃		-	0.8	0.895	
Reverse current at rated DC	T _j =25℃	1_	-	-	5	μA
blocking voltage	Tj=150°C	I _R	-	-	200	
Davaraa raaayaw tiraa	I _F =1A,V _R =30V, di/dt=100A/μs, T _j =25℃	4	-	20	25	20
Reverse recovery time	I _F =0.5A,I _R =1A; I _{RR} =0.25A,T _j =25°C	t _{rr}	-	20	25	ns

THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-mb)}	Thermal resistance from junction to mounting base	-	-	2.7	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient	-	60	-	°C/W

MARKING



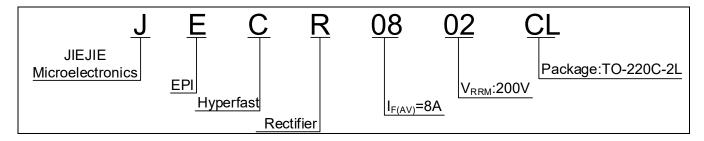
ECR	EPI Hyperfast Recovery Rectifier
08	I _{F(AV)} =8A
02	V _{RRM} :200V
CL	Package: TO-220C-2L

 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C 3 $\underline{\mathbf{x}}$ 1:

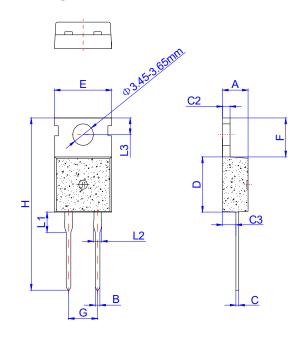
2018	2019	2020	2021	2022	2023	2024
Н		٦	K	اــ	М	Z
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

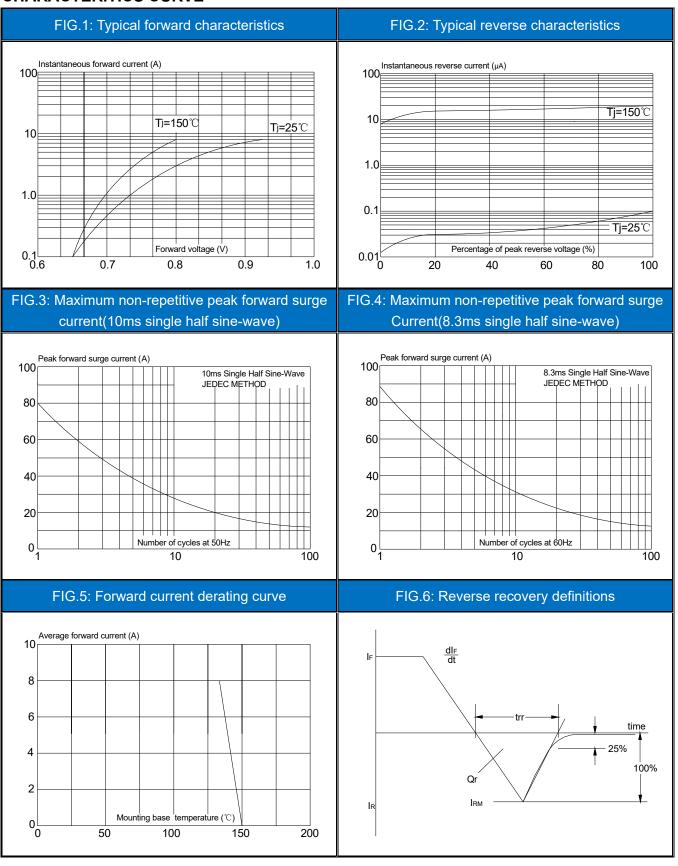


	Dimensions					Dime			
Ref.		Millimeter	meters Inche		Inches	;			
	Min.	Тур.	Max.	Min.	Тур.	Max.			
Α	4.40		4.60	0.173		0.181			
В	0.70		0.90	0.028		0.035			
С	0.45		0.60	0.018		0.024			
C2	1.23		1.32	0.048		0.052			
C3	2.20		2.60	0.087		0.102			
D	8.90		9.90	0.350		0.390			
E	9.90		10.3	0.390		0.406			
F	6.30		6.90	0.248		0.272			
G		5.08			0.200				
Н	28.0		29.8	1.102		1.173			
L1		3.39			0.133				
L2	1.14		1.70	0.045		0.067			
L3	2.65		2.95	0.104		0.116			
Ф		3.6			0.142				

PACKAGE INFORMATION-TO-220C-2L

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON	
	(g/PCS) typ.	(PCS)	(PCS)	
TUBE	2	50	5,000	

CHARACTERITICS CURVE





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