

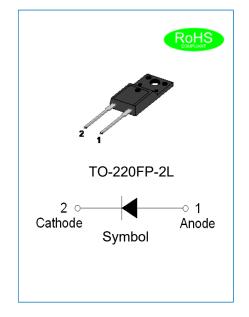
JIEJIE MICROELECTRONICS CO., LTD.

JPUR0806FPL EPI PLANAR ULTRAFAST SOFT RECOVERY RECTIFIER

Rev.1.1

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
- Ultrafast recovery time
- ♦ Epitaxial planar technology
- ♦ 5th Generation soft fast recovery characteristics
- ♦ Low recovery loss



MECHANICAL DATA

♦ Case: TO-220FP-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	JPUR0806FPL	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	VRMS	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _C =130 ℃	I _{F(AV)}	8	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	1	99	٨
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	- I _{FSM} 90		A
Junction temperature and storage temperature range	Tj,Tstg	-55 to +175	$^{\circ}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz;RH≤65%;				
		from all pins to external				
$V_{isol(RMS)}$	RMS isolation voltage	heatsink;	-	-	2500	V
		sinusoidal waveform;				
		clean and dust free				
	Isolation capacitance	from cathode to external		40		5.C
C_{isol}		heatsink	-	10	-	pF



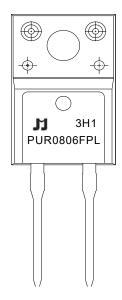
Parameter S		Symbol	Min.	Тур.	Max.	Unit
Campand valle as	I _F =8A,T _j =25℃	\/	-	1.35	1.6	V
Forward voltage	I _F =8A,T _j =150℃	V _F	-	1.1	-	V
D	V _R =600V,T _j =25°C		-	-	5	^
Reverse current	V _R =600V,T _j =150°C	I _R	-	-	200	μA
	I _F =1A,V _R =30V, dI _F /dt=200A/µs,T _j =25°C		-	22	30	ns
Reverse recovery time	I _F =8A,V _R =200V, dI _F /dt=200A/μs,T _j =25°C	t _{rr}	-	60	-	
	I _F =8A,V _R =200V, dI _F /dt=200A/µs,T _j =125℃		-	105	-	
Deverse receiver aurent	I _F =8A,V _R =200V, dI _F /dt=200A/µs,T _j =25℃		-	4.3	-	۸
Reverse recovery current	I _F =8A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C	- I _{RM}	-	7	-	А
D	I _F =8A,V _R =200V, dI _F /dt=200A/µs,T _j =25℃	Qr	-	155	-	0
Reverse charge	harge		-	450	-	nC

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	-	4	°C/W



MARKING



PUR	Planar Ultrafast Recovery Rectifier
08	I _{F(AV)} =8A
06	V _{RRM} :600V
FPL	Package: TO-220FP-2L

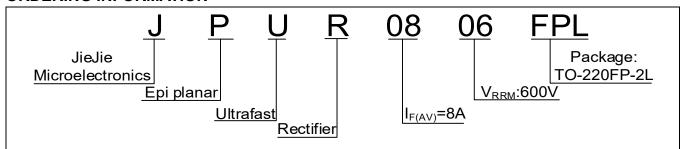
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

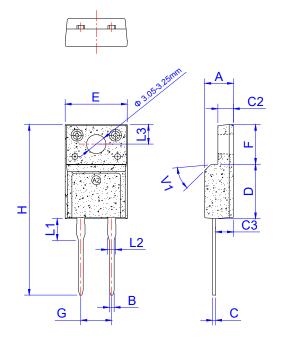
2018	2019	2020	2021	2022	2023	2024
Н	ı	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



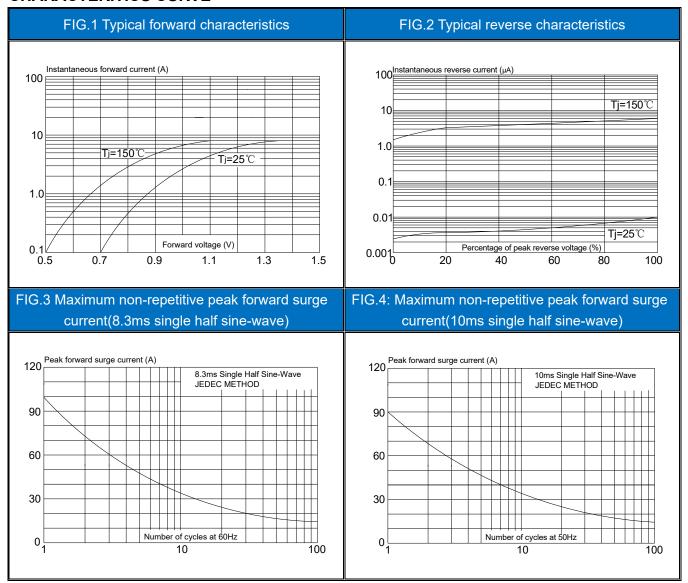
	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
C3	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
Е	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G		5.08			0.200	
Н	28.0		29.8	1.102		1.173
L1		3.63			0.143	
L2	1.14		1.70	0.045		0.067
L3		3.30			0.130	
V1		45°			45°	

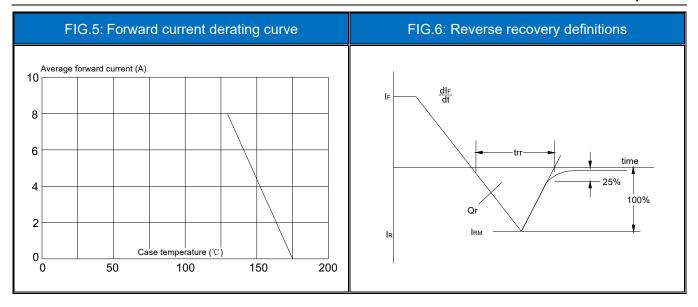


PACKAGE INFORMATION-TO-220FP-2L

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

CHARACTERITICS CURVE





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