

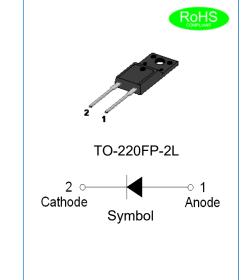
JIEJIE MICROELECTRONICS CO., LTD.

JPUR1506FPL EPI PLANAR ULTRAFAST SOFT RECOVERY RECTIFIER

Rev.0.2

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	JPUR1506FPL	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 =95℃	I _{F(AV)}	15	Α	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	1	165	٨	
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	I _{FSM} 150		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				
C	laciation consistence	from cathode to external		10	-	ηE
C_{isol}	Isolation capacitance	heatsink	-			pF



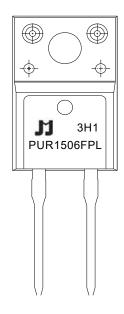
Param	eter	Symbol	Min.	Тур.	Max.	Unit
Commend welfers	I _F =15A,T _j =25℃		-	1.35	1.6	V
Forward voltage	I _F =15A,T _j =150℃	V _F	-	1.1	-	V
D	V _R =600V,T _j =25℃		-	-	5	μА
Reverse current	V _R =600V,T _j =150℃	- I _R	-	-	300	
	I _F =1A,V _R =30V, dI _F /dt=200A/µs,T _j =25℃		-	29	33	ns
Reverse recovery time	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =25°C	t _{rr}	-	75	-	
	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =125℃		-	140	-	
Doverno recovery ourrent	I _F =15A,V _R =200V, dI _F /dt=200A/μs,T _j =25°C		-	5.5	-	٨
Reverse recovery current	I _F =15A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C	- I _{RM}	-	11.5	-	Α
Devices of our	I _F =15A,V _R =200V, dI _F /dt=200A/μs,T _j =25°C		-	250	-	·- C
Reverse charge	I _F =15A,V _R =200V, dI _F /dt=200A/μs,T _j =125℃	Qr	-	900	-	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
15	I _{F(AV)} =15A
06	V _{RRM} :600V
FPL	Package: TO-220FP-2L

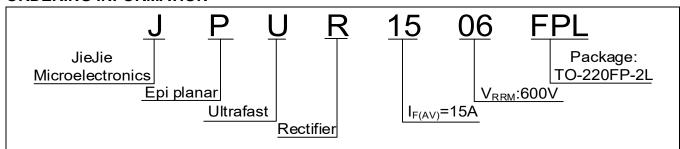
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3**x**1:

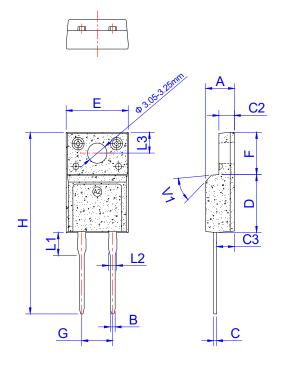
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

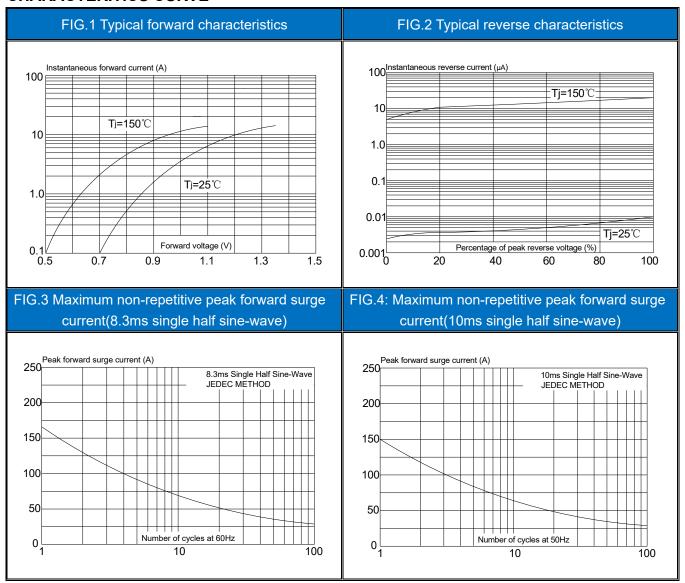


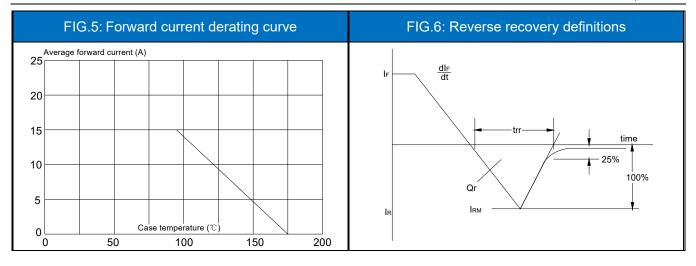
	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
СЗ	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
Е	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G		5.08			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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