JIEJIE MICROELECTRONICS CO., LTD.

JEER1506FPL EPI SUPERFAST SOFT RECOVERY RECTIFIER

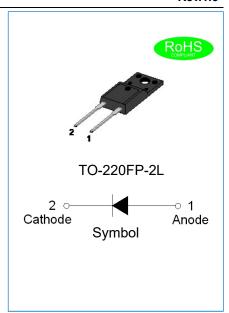
Rev.1.3

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
- ♦ Superfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- ♦ For use in low voltage, high frequency inverter, free wheeling, and polarity protection application



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



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

Parameter	Symbol	JEER1506FPL	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 =100°C	I _{F(AV)}	15	Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load	I _{FSM}	200	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$ C

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
V _{isol(RMS)}	RMS isolation voltage	50Hz≤f≤60Hz,RH≤65%,from all pins to external heatsink, sinusoidal waveform,clean and dust free	1	,	2500	V
C_{isol}	Isolation capacitance	From cathode to external heatsink	-	10	1	pF

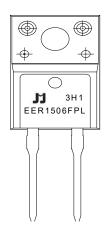
ELECTRICAL CHARACTERISTICS(Rating at 25°C ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =15A,T _j =25℃	V _F	-	-	1.7	V
DC reverse current at rated DC blocking voltage	T _j =25℃	I _R	-	-	5	μΑ
	T _j =150℃		-	-	300	
Reverse recovery time	I _F =0.5A,I _R =1A, I _{rr} =0.25A	t _{rr}	-	-	35	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	1	4	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
15	I _{F(AV)} =15A
06	V _{RRM} :600V
FPL	Package:TO-220FP-2L

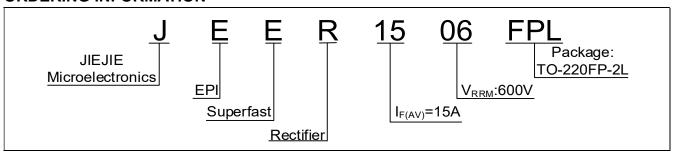
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

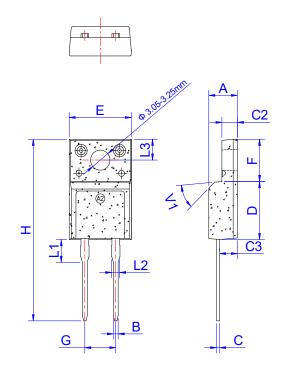
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

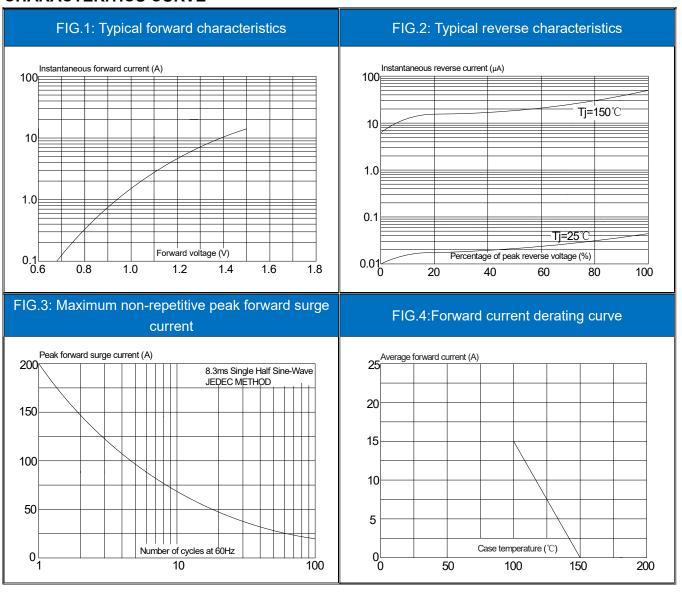


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
А	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
C3	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
E	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G		5.08			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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