JIEJIE MICROELECTRONICS CO., LTD.

JEER3006FPL EPI SUPERFAST RECOVERY RECTIFIER

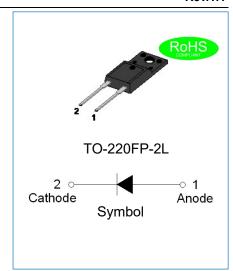
Rev.1.1

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
- ♦ Superfast recovery time and soft 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:2gram



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

Parameter	Symbol	JEER3006FPL	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	٧
Maximum RMS voltage	VRMS	420	٧
Maximum DC blocking voltage	V _{DC}	600	٧
Average forward current at T _C =100℃	I _{F(AV)}	30	Α
Peak forward surge current: 10ms single half sine-wave superimposed on rated load		180	^
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	IFSM	200	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

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	,	-	2500	V
C _{isol}	Isolation capacitance	from cathode to external heatsink	-	10	-	pF

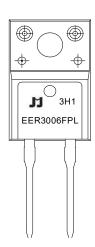
ELECTRICAL CHARACTERISTICS(Rating at 25° C case temperature unless otherwise specified.)

Parame	ter	Symbol	Min.	Тур.	Max.	Unit
5 J II OL 004	T _j =25℃	.,	-	1.65	2.0	
Forward voltage @I _F =30A	T _j =150℃	V _F	-	1.35	-	V
Reverse current at rated DC	Tj=25℃		-	-	5	
blocking voltage	T _j =150℃	l _R	-	-	400	μA
	I _F =0.5A,I _R =1A,I _{rr} =0.25A		-	-	35	ns
Reverse recovery time	I _F =30A,V _R =30V, di/dt=200A/μs,T _j =25°C	t _{rr}	-	41	90	
	I _F =30A,V _R =200V, di/dt=200A/μs,T _J =25°C		-	51	-	
	I _F =30A,V _R =200V, di/dt=200A/μs,T _j =125℃		-	90	-	
Dools reverse receivers a remark	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	5.5	-	
Peak reverse recovery current	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =125°C	- I _{RM}	-	12.5	-	А
D	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	160	-	0
Recovered charge	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =125°C	Q_r	-	580	-	nC

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	3	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier				
30	I _{F(AV)} =30A				
06	V _{RRM} :600V				
FPL	Package:TO-220FP-2L				

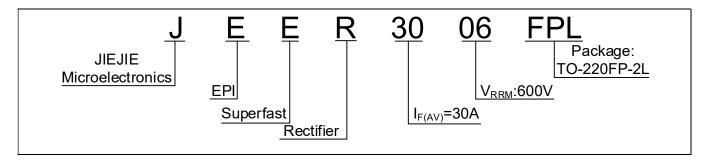
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

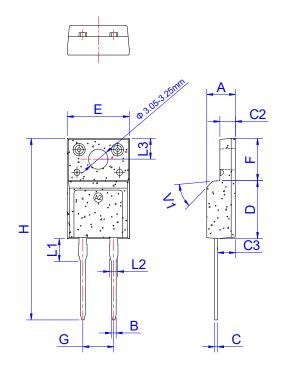
_							
	2018	2019	2020	2021	2022	2023	2024
	Н	I	J	K	L	М	N
	2025	2026	2027	2028	2029	2030	
	0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

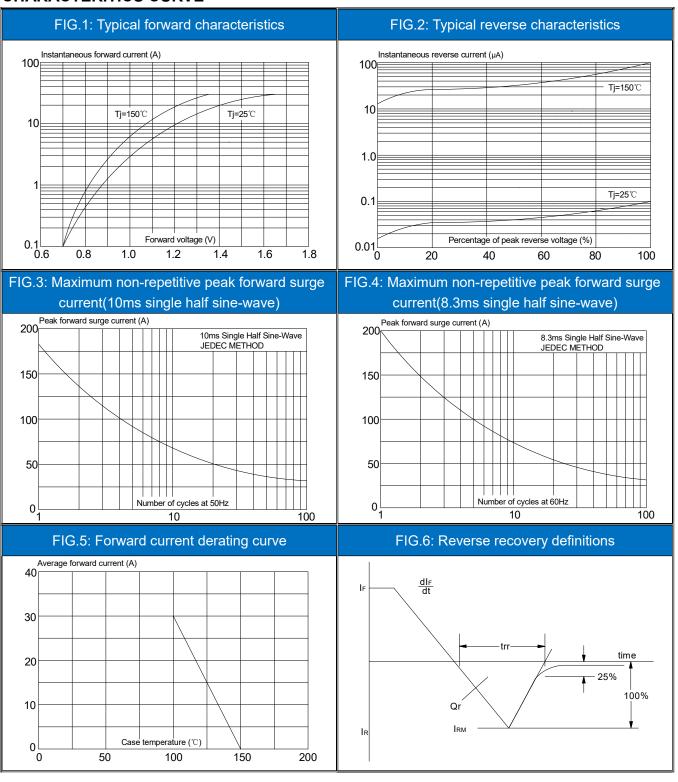


	Dimensions					Dime			
Ref.	Millimeters In		Inches	nches					
	Min.	Тур.	Max.	Min.	Тур.	Max.			
Α	4.50		4.90	0.177		0.193			
В	0.74	0.80	0.83	0.029	0.031	0.033			
С	0.47		0.65	0.019		0.026			
C2	2.45		2.75	0.096		0.108			
C3	2.60		3.00	0.102		0.118			
D	8.80		9.30	0.346		0.366			
Е	9.80		10.4	0.386		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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