JIEJIE MICROELECTRONICS CO., LTD.

JEFR1008FPL EPI FAST SOFT RECOVERY RECTIFIER

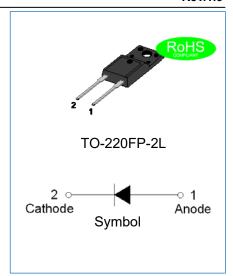
Rev.1.3

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
- ♦ Fast 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:2 gram



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

Parameter	Symbol	JEFR1008FPL	Unit
Maximum repetitive peak reverse voltage	VRRM	800	V
Maximum DC blocking voltage	V _{DC}	800	V
Maximum average forward current	I _{F(AV)}	10	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	IFSM	150	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

ISOLATION CHARACTERISTICS

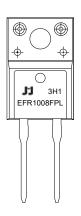
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50 Hz≤f≤60Hz;RH≤65 %; from				
V: (2140)	RMS isolation voltage	all pins to external heatsink;			2500	V
V _{isol(RMS)}	Rivio isolation voltage	sinusoidal waveform; clean		-	2500	
		and dust free				
0	Isolation capacitance	from cathode to external		10	-	pF
Cisol		heatsink	-	10		

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =10A,T _j =25℃	\/_	-	-	1.7	V
Forward voltage	I _F =10A,T _j =150℃	V _F	-	-	1.5	V
Doverno gurrent	V _R =800V,T _j =25℃	1_	-	-	5	
Reverse current	verent $V_R=800V, T_j=150^{\circ}\mathrm{C}$	IR IR	-	-	200	μA
	I _F =0.5A,I _R =1A,I _{rr} =0.25A		-	-	75	
Reverse recovery time	I _F =1A,V _R =30V, di/dt=200A/µs, T _j =25℃	t _{rr}	-	-	55	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	2	-	°C/W

MARKING



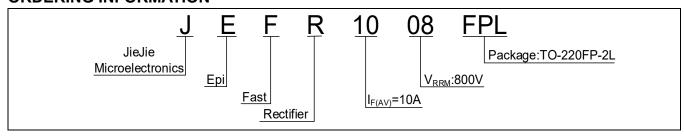
EFR	EPI Fast Recovery Rectifier
10	I _{F(AV)} =10A
08	V _{RRM} :800V
FPL	Package:TO-220FP-2L

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

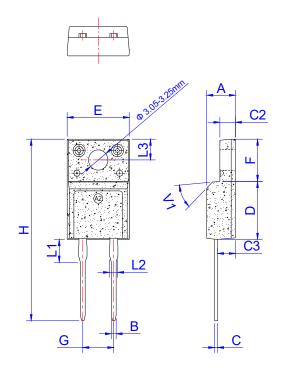
~ <u>~</u>						
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

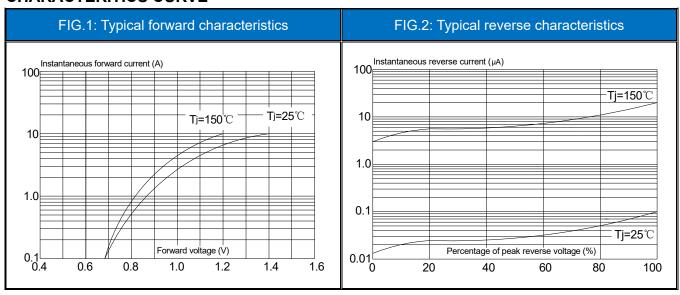


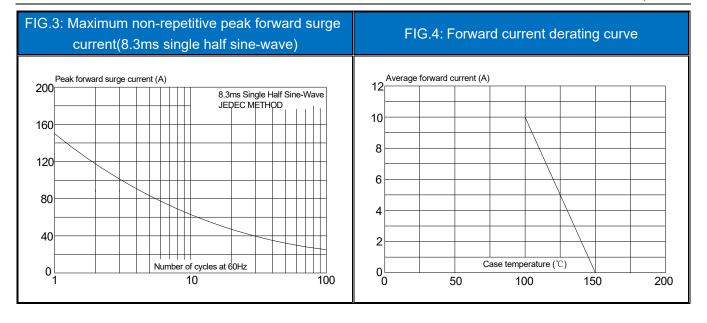
	Dimensions						
Ref.		Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	4.50		4.90	0.177		0.193	
В	0.74	0.80	0.83	0.029	0.031	0.033	
С	0.47		0.65	0.019		0.026	
C2	2.45		2.75	0.096		0.108	
C3	2.60		3.00	0.102		0.118	
D	8.80		9.30	0.346		0.366	
Е	9.80		10.4	0.386		0.410	
F	6.40		6.80	0.252		0.268	
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 (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	2	50	5,000

CHARACTERITICS CURVE





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