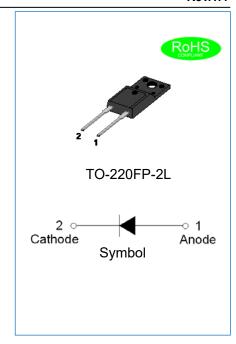
JIEJIE MICROELECTRONICS CO., LTD.

JEFR0808FPL EPI FAST SOFT RECOVERY RECTIFIER

Rev.1.4

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
- Applications for discontinuous current mode (DCM) power factor correction (PFC), High frequency switched-mode power supplies, and TV power supplies



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°C ambient temperature unless otherwise specified.)

Parameter	Symbol	JEFR0808FPL	Unit
Maximum repetitive peak reverse voltage	VRRM	800	V
Maximum DC blocking voltage	V _{DC}	800	V
Average forward current at T _C =100℃	I _{F(AV)}	8	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	125	А
Junction temperature and storage temperature range	T _j ,T _{stg}	-55 to +150	${\mathbb C}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50 Hz≤f≤60Hz,RH≤65%,from				
V: (D10)	RMS isolation voltage	all pins to external heatsink,	-	-	2500	\/
Visol(RMS)	Rivio isolation voltage	sinusoidal waveform,clean				V
		and dust free				
C		from cathode to external		10		, C
Cisol	Isolation capacitance	heatsink	-		-	pF

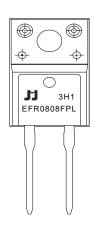
ELECTRICAL CHARACTERISTICS(Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =8A,T _j =25℃	\/_	-	-	1.7	V
Forward voltage	I _F =8A,T _j =150℃	V _F	-	-	1.5	
Doverno gurrent	V _R =800V,T _j =25℃		-	-	5	
Reverse current	V _R =800V,T _j =150°C	IR	-	-	200	μA
Reverse recovery time	I _F =0.5A,I _R =1A,I _{II} =0.25A	t _{rr}	-	-	75	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	2	1	°C/W

MARKING



EFR	EPI Fast Recovery Rectifier
08	I _{F(AV)} =8A
08	V _{RRM} :800V
FPL	Package:TO-220FP-2L

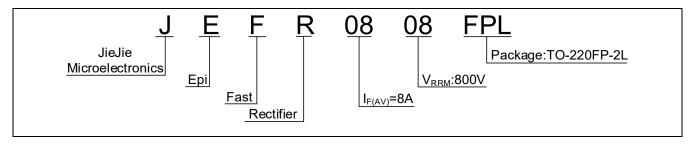
xH1: Month, 1/2/3~9/A/B/C

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	

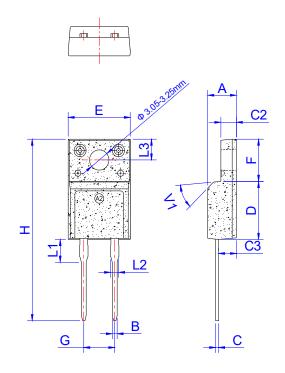
3Hx: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA

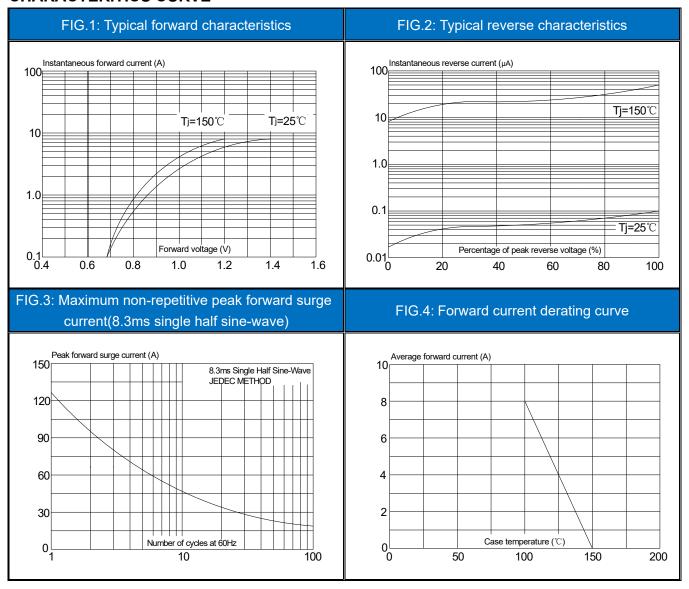


	Dimensions					
Ref.		Millimete	rs	Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
СЗ	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
Е	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G		5.08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