JIEJIE MICROELECTRONICS CO., LTD.

JEFR1608FPCT EPI FAST RECOVERY RECTIFIER

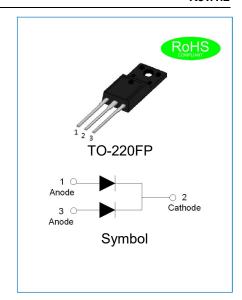
Rev.1.2

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
- ♦ Fast recovery time and soft recovery characteristics
- ♦ Low recovery loss

MECHANICAL DATA

- ♦ Case: TO-220FP molded plastic over passivated junction
- → Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2.07gram



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

Parameter	Symbol	JEFR1608FPCT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	800	V
Maximum RMS voltage	VRMS	560	V
Maximum DC blocking voltage	V _{DC}	800	V
Maximum average forward current at T _C =100℃	I _{F(AV)}	16	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (per diode)	I _{FSM}	125	Α
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz;RH≤65%; from				
\/	DMS inclotion voltage	all pins to external heatsink;	-	-	2500	.,
V _{isol(RMS)}	RMS isolation voltage	sinusoidal waveform;				V
		clean and dust free				
0	1-1-4:	from cathode to external		10		F
C _{isol}	Isolation capacitance	heatsink	-		-	pF

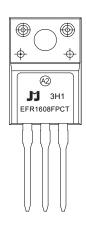
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Converd valtage	I _F =8A,T _j =25℃	V	-	-	1.7	V
Forward voltage	I _F =8A,T _j =150°C	V _F	-	-	1.5	
Reverse current at rated DC	T _j =25℃	I _R	-	-	5	μΑ
blocking voltage	T _j =150℃		-	-	200	
	I _F =0.5A,I _R =1A,I _{rr} =0.25A	t _{rr}	-	-	75	
Reverse recovery time	I _F =1A,V _R =30V, dI _F /dt=100A/μs,T _j =25°C		-	-	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
16	I _{F(AV)} =16A
08	V _{RRM} :800V
FP	Package:TO-220FP
СТ	Common cathode

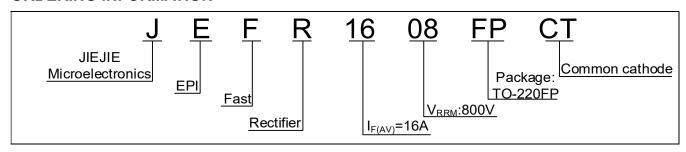
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

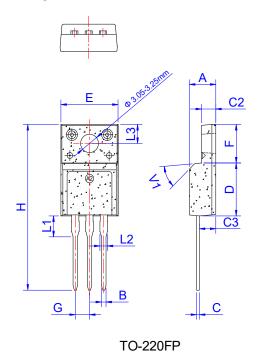
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

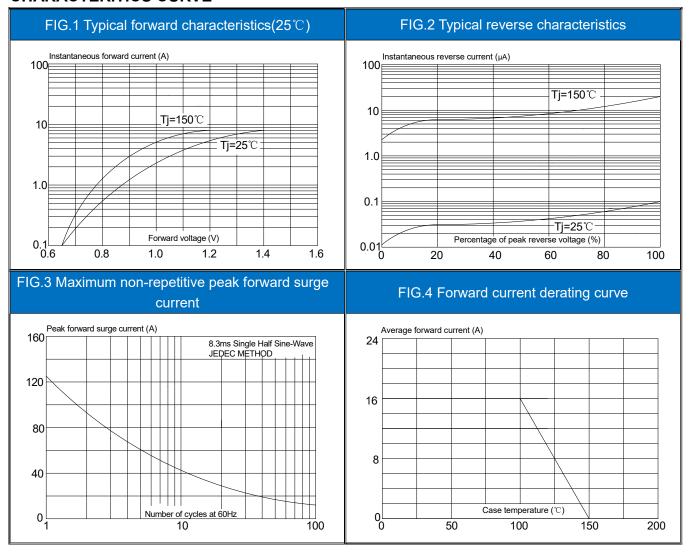


	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
C3	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
E	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G	2.40		2.70	0.094		0.106
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

OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	2.07	50	5,000

CHARACTERITICS CURVE





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