JIEJIE MICROELECTRONICS CO., LTD.

JEER1606FPCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

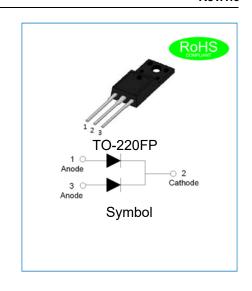
Rev.1.6

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



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

Parameter	Symbol	JEER1606FPCT	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum DC blocking voltage	V _{DC}	600	V
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)	IFSM	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
		50Hz≤f≤60Hz,RH≤65%,from				
1/	DMC inclution voltage	all pins to external heatsink,		2500	.,	
V _{isol(RMS)} F	RMS isolation voltage	sinusoidal waveform,	-	-	2500	V
		clean and dust free				
_		from cathode to external		40		
Cisol	Isolation capacitance	heatsink	-	10	-	pF

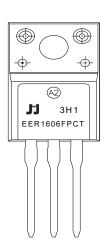
ELECTRICAL CHARACTERISTICS(Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =8A,T _j =25℃	VF	-	-	1.7	٧
Doverno gurrent	V _R =600V,T _j =25℃		-	-	5	μΑ
Reverse current	V _R =600V,T _j =150°C	IR	-	-	200	
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	-	3.6	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
16	I _{F(AV)} =16A
06	V _{RRM} :600V
FP	Package:TO-220FP
СТ	Common cathode

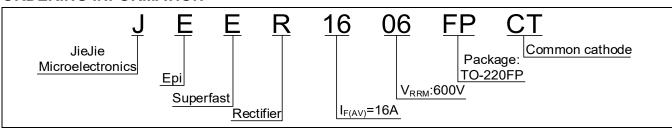
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

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

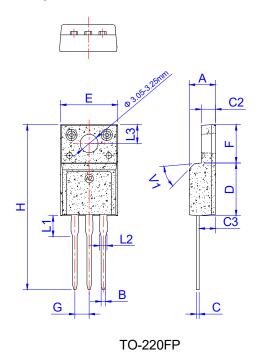
3H<u>x</u>: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA



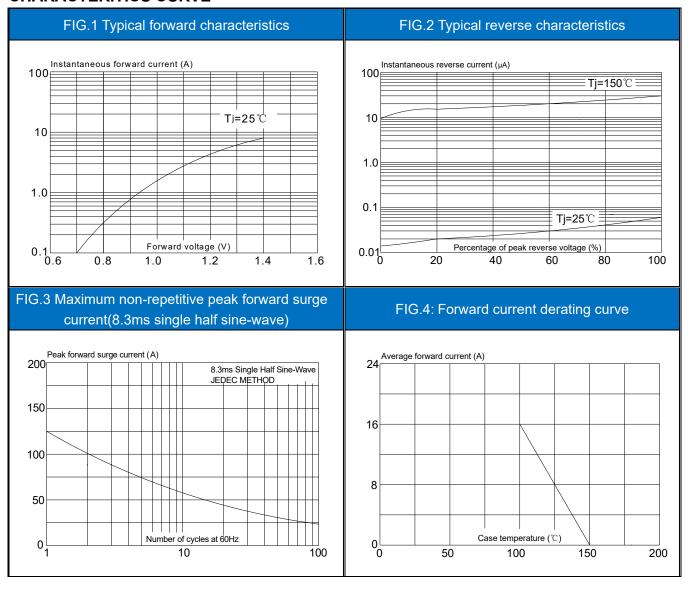
	Dimensions						
Ref.		Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	4.50		4.90	0.177		0.193	
В	0.74	0.80	0.83	0.029	0.031	0.033	
С	0.47		0.65	0.019		0.026	
C2	2.45		2.75	0.096		0.108	
С3	2.60		3.00	0.102		0.118	
D	8.80		9.30	0.346		0.366	
E	9.80		10.4	0.386		0.410	
F	6.40		6.80	0.252		0.268	
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	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	2.07	50	5,000



CHARACTERITICS CURVE





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