JIEJIE MICROELECTRONICS CO., LTD.

JEER2006FPCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

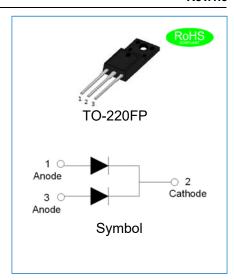
Rev.1.5

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℃ case temperature unless otherwise specified.)

Parameter	Symbol	JEER2006FPCT	Unit
Maximum repetitive peak reverse voltage		600	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum average forward current at T _C =100℃	I _{F(AV)}	20	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	1	150	_
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	IFSM	120	А
Junction temperature and storage temperature range		-55 to +150	$^{\circ}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	er Conditions		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		•	ı	2500	V
C _{isol}	Isolation capacitance	from cathode to external heatsink		10	-	pF

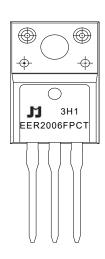
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =10A,T _j =25℃	V _F	-	-	1.7	V
Doverno gurrent	V _R =600V,T _j =25°C	1_	-	-	5	μA
Reverse current	V _R =600V,T _j =150℃	l _R	-	-	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	-	2.5	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier			
20	I _{F(AV)} =20A			
06	V _{RRM} :600V			
FP	Package:TO-220FP			
СТ	Common cathode			

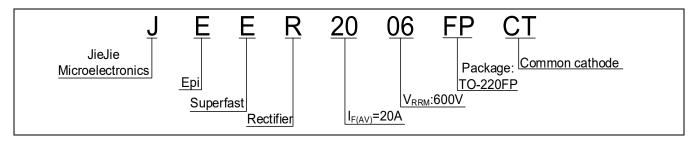
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

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	

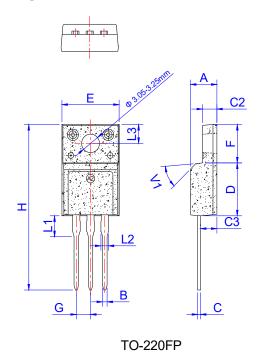
3Hx: Batch number

ORDERING INFORMATION





PACKAGE MECHANICAL DATA

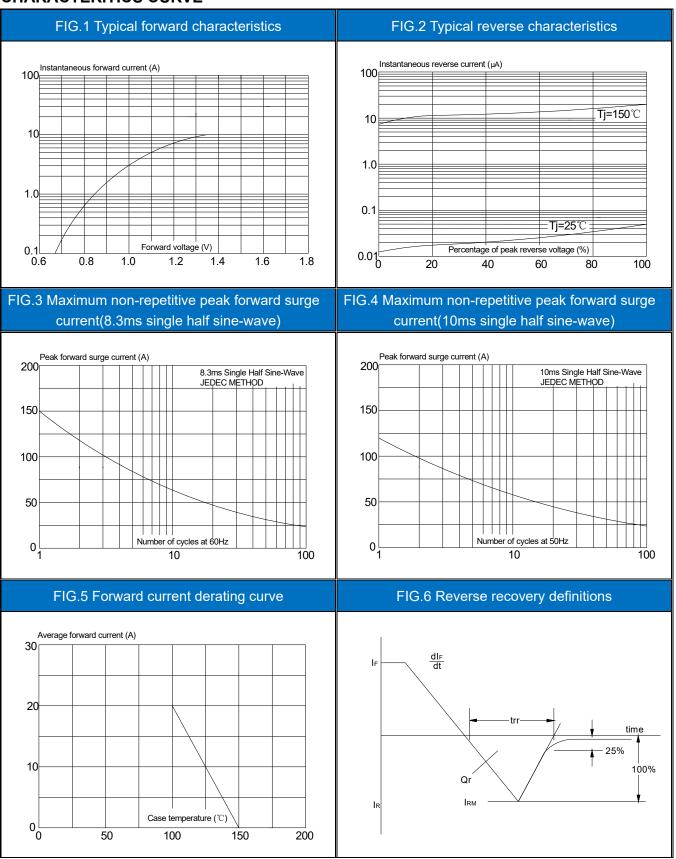


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.50		4.90	0.177		0.193
В	0.74	0.80	0.83	0.029	0.031	0.033
С	0.47		0.65	0.019		0.026
C2	2.45		2.75	0.096		0.108
C3	2.60		3.00	0.102		0.118
D	8.80		9.30	0.346		0.366
Е	9.80		10.4	0.386		0.410
F	6.40		6.80	0.252		0.268
G	2.40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