JIEJIE MICROELECTRONICS CO., LTD.

JEER2006CCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

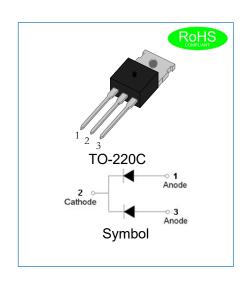
Rev.1.1

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-220C molded plastic over passivated junction
- Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:2.08 gram



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

Parameter	Symbol	JEER2006CCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	٧
Maximum RMS voltage	VRMS	420	٧
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)		150	_
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	120	Α
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$ C

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

Parameter		Symbol	Min.	Тур.	Max.	Unit
Forward voltage	I _F =10A,T _j =25℃	V _F	-	1.3	1.7	V
	I _F =10A,T _j =150℃		-	1.0	1.35	
Maximum DC reverse current	T _j =25℃	I _R	-	-	5	- μΑ
at rated DC blocking voltage	T _j =150℃		-	-	200	

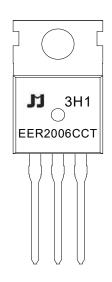
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter		Symbol	Min.	Тур.	Max.	Unit
	I _F =0.5A,I _R =1A,Irr=0.25A		-	-	35	
Reverse recovery time	I _F =1A,V _R =30V, di/dt=100A/μs,T _j =25℃	t _{rr}	-	30	50	ns
	I _F =1A,V _R =30V, di/dt=50A/μs,T _j =25°C		-	40	55	

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	2.0	-	℃W

MARKING



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

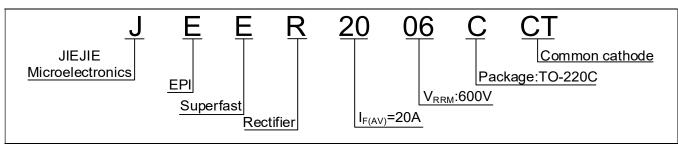
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

3**x**1:

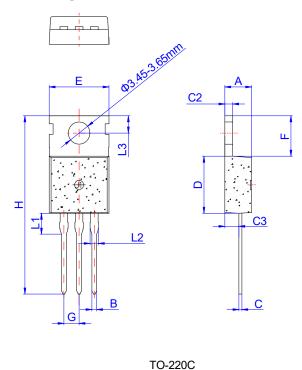
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

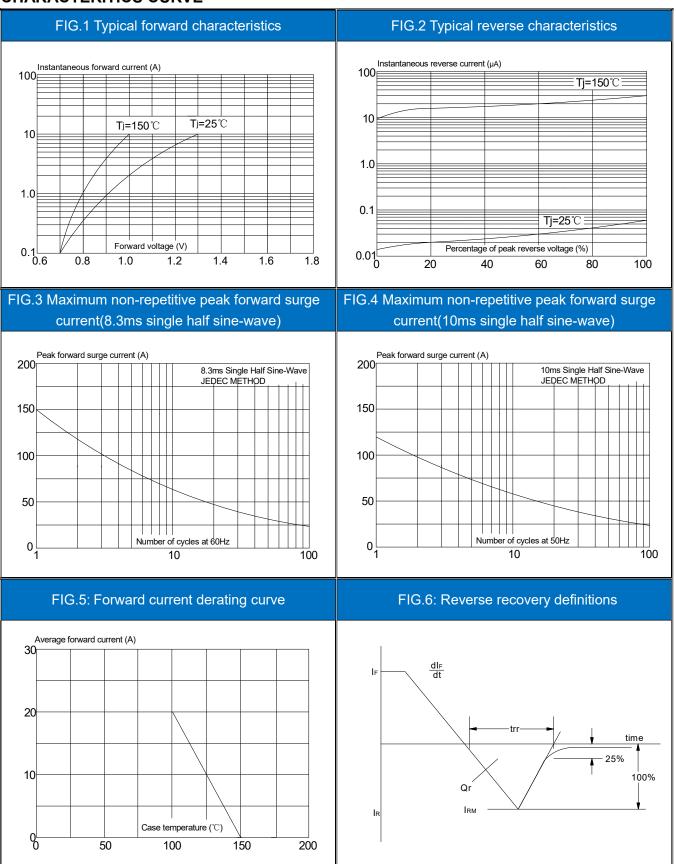


	Dimensions					
Ref.		Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.70		0.90	0.028		0.035
С	0.45		0.60	0.018		0.024
C2	1.23		1.32	0.048		0.052
C3	2.20		2.60	0.087		0.102
D	8.90		9.90	0.350		0.390
E	9.90		10.3	0.390		0.406
F	6.30		6.90	0.248		0.272
G		2.54			0.1	
Н	28.0		29.8	1.102		1.173
L1		3.39			0.133	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
Ф		3.6			0.142	

PACKAGE INFORMATION-TO-220C

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) typ.	(PCS)	(PCS)
TUBE	2.08	50	5,000

CHARACTERITICS CURVE





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