JIEJIE MICROELECTRONICS CO., LTD.

JEER1606BCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

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-220B molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:1.94 gram

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

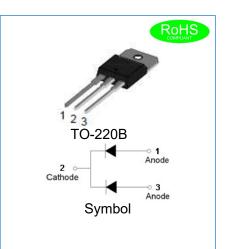
Parameter	Symbol	JEER1606BCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS Voltage	Vrms	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T_C =100 $^\circ$ C	I _{F(AV)}	16	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (per diode)	I _{FSM}	125	А
Junction temperature and storage temperature range	T_{j},T_{stg}	-55 to +150	°C

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

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	l ⊧=8A,Tj=25 ℃	V _F	-	-	1.7	V
DC reverse current	T j =25 ℃	1	-	-	5	μA
at rated DC blocking voltage	Tj=150℃	IR	-	-	200	
Reverse recovery time	I _F =0.5A,I _R =1A,Irr=0.25A	t _{rr}	-	-	35	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	1.8	-	°C/W

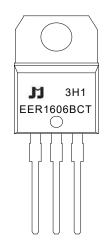


Rev.1.3

JEER1606BCT

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MARKING



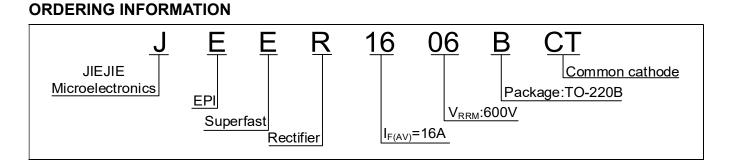
EER	EPI SuperFast Recovery Rectifier
16	I _{F(AV)} =16A
06	VRRM:600V
В	Package:TO-220B
СТ	Common cathode

<u>x</u>H1: Month, 1/2/3~9/A/B/C

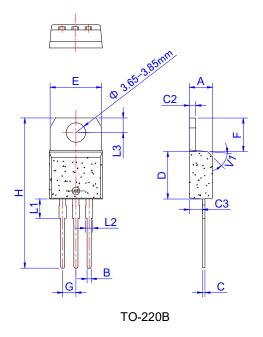
3<u>x</u>1:

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



PACKAGE MECHANICAL DATA



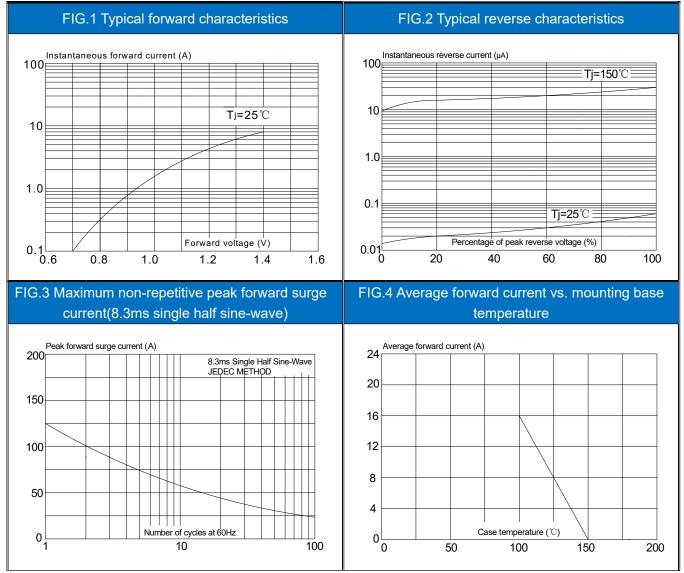
	Dimensions					
Ref.		Millimete	rs	Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.61		0.88	0.024		0.035
С	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.60		10.4	0.378		0.409
F	6.20		6.60	0.244		0.260
G	2.40		2.70	0.094		0.106
Н	28.0		29.8	1.102		1.173
L1		3.75			0.147	
L2	1.14		1.70	0.045		0.067
L3	2.65		2.95	0.104		0.116
V1		45°			45°	

JEER1606BCT

PACKAGE INFORMATION-TO-220B

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	1.94	50	5,000

CHARACTERITICS CURVE



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