JIEJIE MICROELECTRONICS CO., LTD.

JEER1002BCT EPI SUPERFAST RECOVERY RECTIFIER

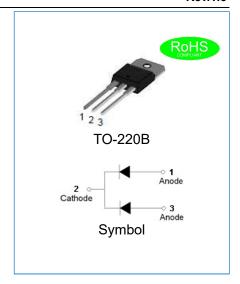
Rev.1.3

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:1.94gram



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

Parameter	Symbol	JEER1002BCT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	200	V
Maximum RMS voltage	V _{RMS}	140	V
Maximum DC blocking voltage	V _{DC}	200	V
Maximum average forward current at T _C =100°C	I _{F(AV)}	10	Α
Peak forward surge current:8.3ms single half sine-wave superimposed on rated load (per diode)	I _{FSM}	75	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

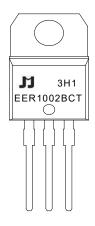
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	V _F	-	-	0.95	V	
Reverse current at rated DC	T _j =25℃		-	-	5	μА
blocking voltage	T _j =150°C	I _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	-	2.0	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
10	I _{F(AV)} =10A
02	V _{RRM} : 200V
В	Package: TO-220B
СТ	Common cathode

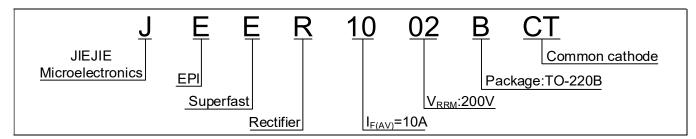
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

3<u>x</u>1:

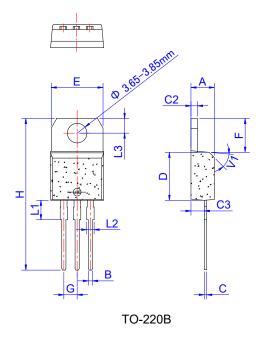
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



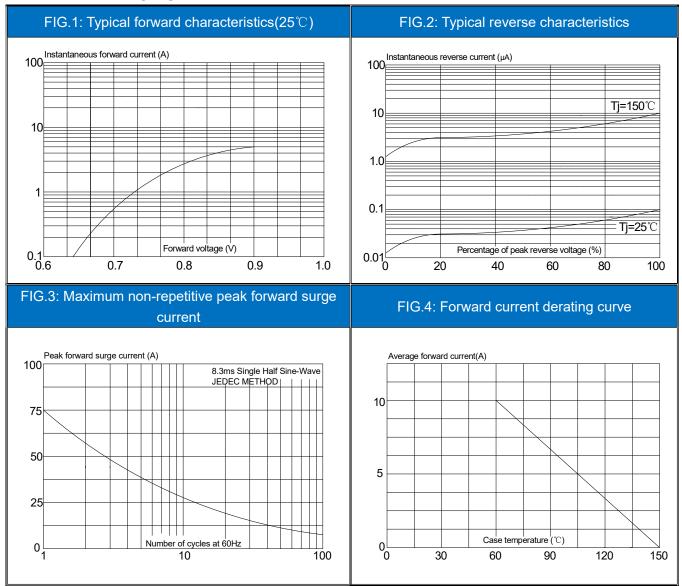
	Dimensions				Dime		
Ref.		Millimete	rs		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	4.40		4.60	0.173		0.181	
В	0.61		0.88	0.024		0.035	
С	0.46		0.70	0.018		0.028	
C2	1.21		1.32	0.048		0.052	
C3	2.40		2.72	0.094		0.107	
D	8.60		9.70	0.339		0.382	
E	9.60		10.4	0.378		0.409	
F	6.20		6.60	0.244		0.260	
G	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°		



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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