JIEJIE MICROELECTRONICS CO., LTD.

JEUR1606BCT EPI ULTRAFAST RECOVERY RECTIFIER

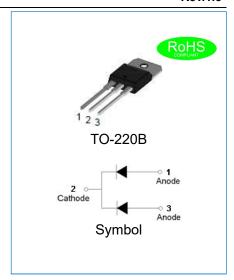
Rev.1.3

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
- ♦ Ultrafast 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℃ case temperature unless otherwise specified.)

Parameter	Symbol	JEUR1606BCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum average forward current @T _C =105℃	I _{F(AV)}	16	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (per diode)	I _{FSM}	100	Α
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$ C

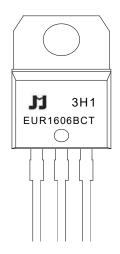
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Converd veltore	I _F =8A,T _j =25℃	\	-	-	1.5	V
Forward voltage	I _F =8A,T _j =150℃	V _F	-	-	1.2	
Reverse current at rated DC	T _j =25℃		-	-	5	μΑ
blocking voltage	T _j =150°C	l _R	-		200	
Reverse recovery time	I _F =0.5A,I _R =1A,I _{rr} =0.25A	t _{rr}	-	-	50	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	2	-	°C/W

MARKING



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

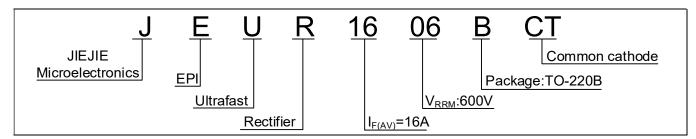
xH1: Month, 1, 2, 3 \sim 9, A, B, C

3<u>x</u>1:

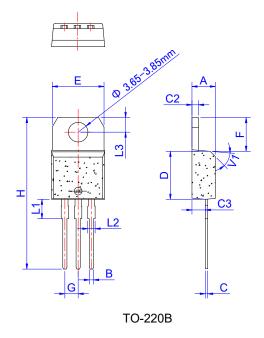
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

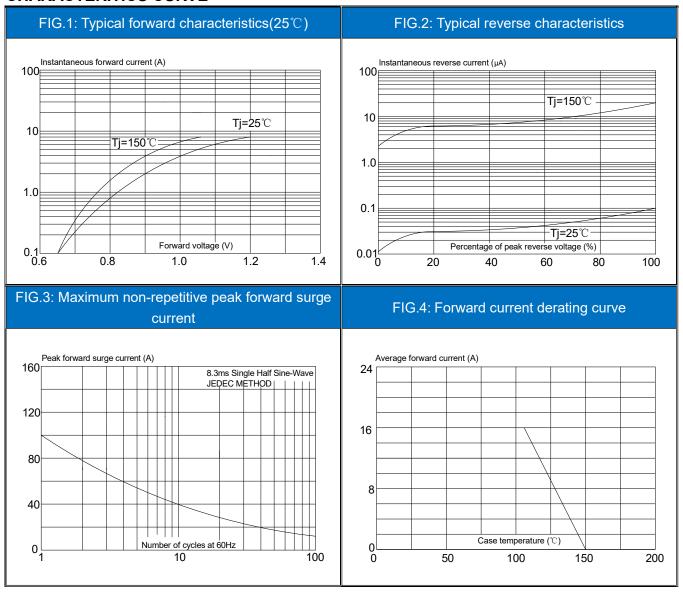


	Dimensions				Dime	
Ref.		Millimete	rs		Inches	
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.61		0.88	0.024		0.035
С	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
Е	9.60		10.4	0.378		0.409
F	6.20		6.60	0.244		0.260
G	2.40		2.70	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 (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	1.94	50	5,000

CHARACTERITICS CURVE





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