JIEJIE MICROELECTRONICS CO., LTD.

JEFR1608BCT EPI FAST SOFT RECOVERY RECTIFIER

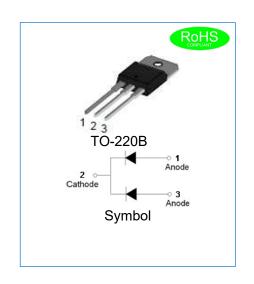
Rev.1.1

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
- ♦ Fast 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	JEFR1608BCT	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	800	V
Maximum RMS Voltage	VRMS	560	V
Maximum DC blocking voltage	V _{DC}	800	V
Maximum average forward current at T _C =100 ℃	I _{F(AV)}	16	Α
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	$^{\circ}$

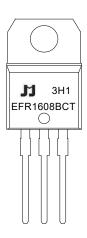
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Converd veltore	I _F =8A,T _j =25℃	\	-	-	1.7	V
Forward voltage	I _F =8A,T _j =150℃	V _F	-	-	1.5	
Reverse current at rated DC blocking voltage	T _j =25℃		-	-	5	μA
	T _j =150℃	l _R	-	-	200	
	I _F =0.5A,I _R =1A,I _{rr} =0.25A		-	-	75	
Reverse recovery time	I _F =1A,V _R =30V, dI _F /dt=100A/µs,T _j =25°C	t _{rr}	-	-	55	ns

THERMAL RESISTANCES

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

MARKING



EFR	EPI Fast Recovery Rectifier
16	I _{F(AV)} =16A
08	V _{RRM} :800V
В	Package:TO-220B
СТ	Common cathode

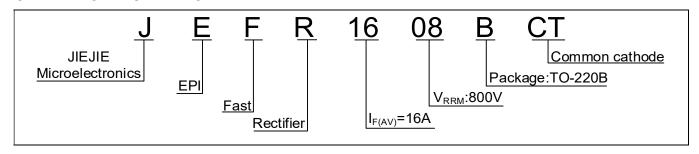
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

3<u>x</u>1:

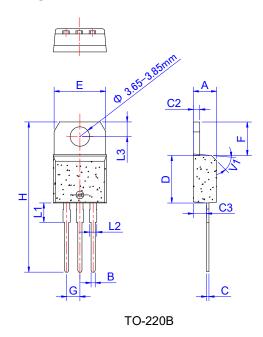
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	Ш	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

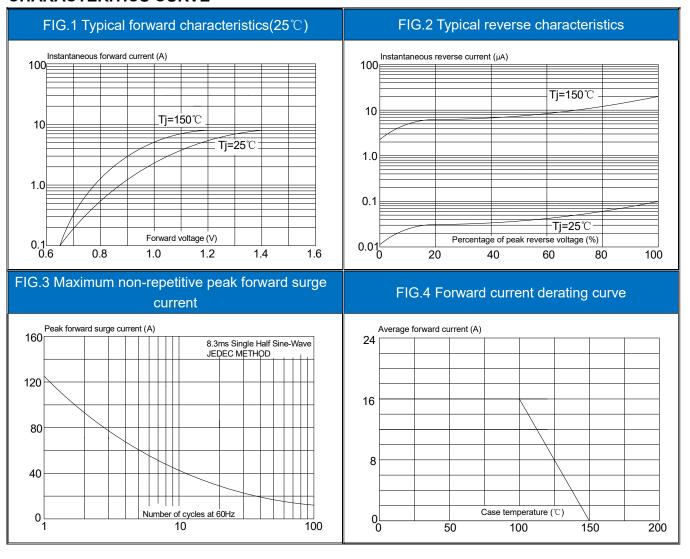


	Dimensions					
Ref.	Ref. Millimeters		rs	Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	0.61		0.88	0.024		0.035
С	0.46		0.70	0.018		0.028
C2	1.21		1.32	0.048		0.052
C3	2.40		2.72	0.094		0.107
D	8.60		9.70	0.339		0.382
E	9.60		10.4	0.378		0.409
F	6.20		6.60	0.244		0.260
G	2.40		2.70	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





JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable JieJie product documentation. Warranties granted by JieJie shall be deemed void for products used for any purpose not expressly set forth in applicable JieJie documentation. JieJie shall not be liable for any claims or damages arising out of products used in applications not expressly intended by JieJie as set forth in applicable JieJie documentation. The sale and use of JieJie products is subject to JieJie terms and conditions of sale, unless otherwise agreed by JieJie. Information furnished in this document is believed to be accurate and reliable. However,

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 1.1st version which is made in 19-Sept.-2022. This document supersedes and replaces all information previously supplied.

is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd. Copyright ©2022 Jiangsu JieJie Microelectronics Co., Ltd. Printed All rights reserved.