JIEJIE MICROELECTRONICS CO., LTD.

JEER2004CCT **EPI SUPERFAST 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
- \diamond Low recovery loss

MECHANICAL DATA

- ∻ Case: TO-220C molded plastic over passivated junction
- \diamond Terminals: Solder plated, solderable per J-STD-002
- Weight:2.08gram ∻

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

Parameter	Symbol	JEER2004CCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	400	V
Maximum RMS voltage	Vrms	280	V
Maximum DC blocking voltage	V _{DC}	400	V
Maximum average forward current at $T_{C}\text{=}100^{\circ}\text{C}$	I _{F(AV)}	20	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	I _{FSM}	150	А
Junction temperature and storage temperature range	T_{j},T_{stg}	-55 to +150	°C

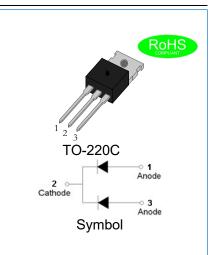
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parame	Symbol	Min.	Тур.	Max.	Unit	
Forward voltage	I _F =10A,Tj=25℃	V _F	-	-	1.3	V
Maximum DC reverse current	T j =25 ℃	I	-	-	5	μA
at rated DC blocking voltage	Tj =150 ℃	IR	-	-	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	-	℃/W

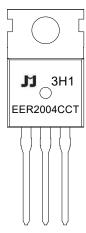
-1 / 4-



Rev.1.1

JEER2004CCT

MARKING



EER	EPI Superfast Recovery Rectifier
20	IF(AV)=20A
04	V _{RRM} : 400V
С	Package: TO-220C
СТ	Common cathode

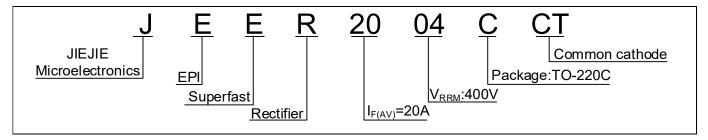
<u>x</u>H1: Month, 1, 2, 3 \sim 9, A, B, C

3<u>x</u>1:

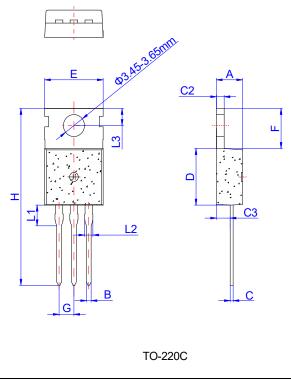
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



	Dimensions					
Ref.	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
Φ		3.6			0.142	

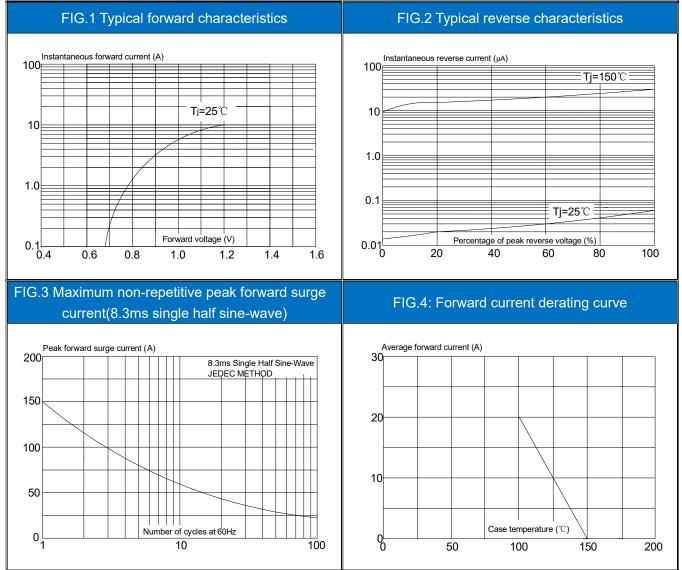
JEER2004CCT

JieJie Microelectronics CO., Ltd.

PACKAGE INFORMATION-TO-220C

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