JIEJIE MICROELECTRONICS CO., LTD.

JEER3004ZCT EPI SUPERAFAST SOFT RECOVERY RECTIFIER

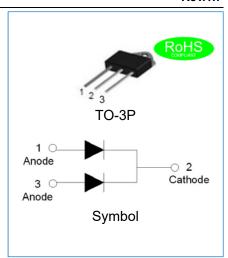
Rev.1.7

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-3P molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Internally constructed isolated package is offered for ease of heat sinking with highest isolation voltage



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

Parameter	Symbol	JEER3004ZCT	Unit
Maximum repetitive peak reverse voltage	VRRM	400	V
Maximum DC blocking voltage	V _{DC}	400	V
Average forward current at T _C =100℃	I _{F(AV)}	30	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load (per diode)	I _{FSM}	200	А
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	${\mathbb C}$

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz,RH≤65%,from				
V: ((DMO)	RMS isolation voltage	all pins to external heatsink,			2500	V
Visol(RMS)	Kivis isolation voltage	sinusoidal waveform,		-		
		clean and dust free				
0	Isolation capacitance	from cathode to external		10	1	L
Cisol		heatsink	_			pF

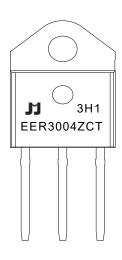
ELECTRICAL CHARACTERISTICS(Rating at 25℃ ambient temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	IF=15A,Tj=25℃	VF	-	-	1.3	V
December	V _R =400V,T _j =25℃	1-	-	-	5	μΑ
Reverse current	V _R =400V,T _j =150°C	IR	-	-	300	
Reverse recovery time	I _F =0.5A,I _R =1.0A,I _{II} =0.25A	t _{rr}	-	-	35	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
Thermal resistance from junction to mounting base with heatsink compound, per diode		-	0.8	2.0	°C/W
R _{th(j-mb)}	Thermal resistance from junction to mounting base with heatsink compound, both diodes conducting	1	1	1.2	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient	-	45	-	°C/W

MARKING



EER	EPI Superfast Recovery Rectifier
30	I _{F(AV)} =30A
04	V _{RRM} :400V
Z	Package: TO-3P
СТ	Common cathode

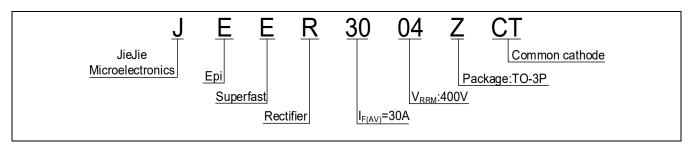
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

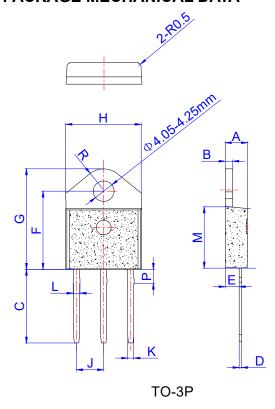
_						
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

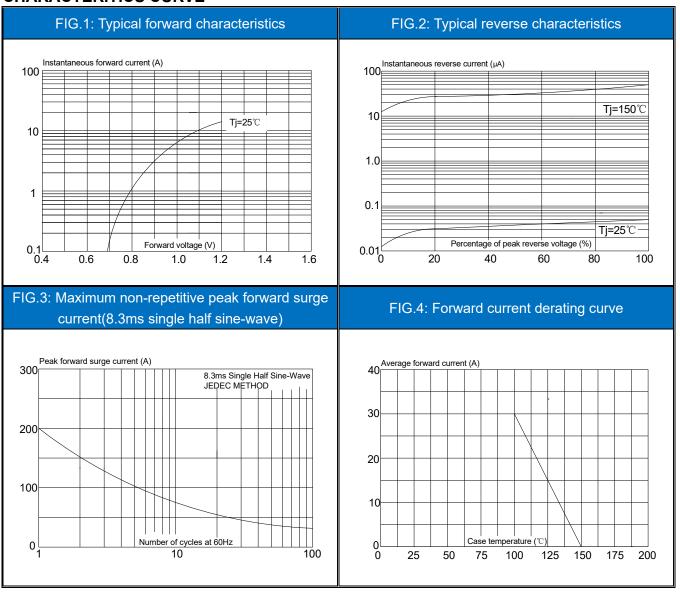


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	1.45		1.55	0.057		0.061
С	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
Е	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
Н	15.10		15.50	0.594		0.610
J	5.40		5.65	0.213		0.222
K	1.10		1.40	0.043		0.055
L	1.35		1.50	0.053		0.059
М	12.37		12.77	0.487		0.503
Р	2.80		3.00	0.110		0.118
R		4.35			0.171	

PACKAGE INFORMATION-TO-3P

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	4.805	30	2,250

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 1.7th version which is made in 10-July-2025. This document supersedes and replaces all information previously supplied.

is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd. Copyright ©2025 Jiangsu JieJie Microelectronics Co., Ltd. Printed All rights reserved.