JIEJIE MICROELECTRONICS CO., LTD.

JEER4006ZCT EPI SUPERFAST SOFT RECOVERY RECTIFIER

Rev.1.2

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

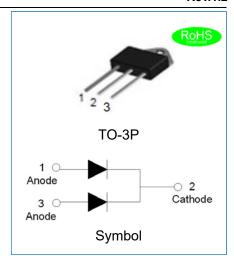
- ♦ Case: TO-3P molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Internally constructed isolated package is offered for ease of heat sinking with highest isolation voltage
- ♦ Weight:4.805gram



Parameter	Symbol	JEER4006ZCT	Unit			
Maximum repetitive peak reverse voltage	VRRM	600	V			
Maximum DC blocking voltage	V _{DC}	600	V			
Average forward current at T _C =100°C	I _{F(AV)}	40	Α			
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	IFSM	200	А			
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$			

ISOLATION CHARACTERISTICS

Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
V _{isol} (RMS)	RMS isolation voltage	50Hz≤f≤60Hz;RH≤65%;from all pins to external heatsink; sinusoidal waveform; clean and dust free	-	-	2500	٧
Cisol	Isolation capacitance	from cathode to external heatsink	-	10	-	pF



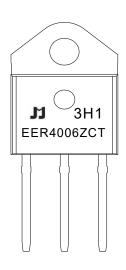
ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =20A,T _j =25℃	V _F	-	-	1.7	V
Daviera evenant	V _R =600V,T _j =25℃	IR	-	-	5	μΑ
Reverse current	V _R =600V,T _j =150°C		-	-	300	
Maximum reverse recovery time	I _F =0.5A,I _R =1.0A, 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	-	°C/W

MARKING



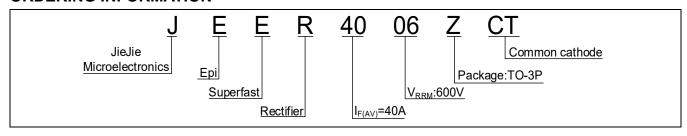
EER	EPI Superfast Recovery Rectifier
40	I _{F(AV)} =40A
06	V _{RRM} : 600V
Z	Package: TO-3P
СТ	Common cathode

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

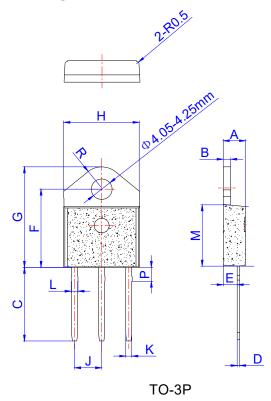
	2018	2019	2020	2021	2022	2023	2024
	Н	I	J	K	L	М	Ν
Ī	2025	2026	2027	2028	2029	2030	
	0	Р	Q	R	S	T	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

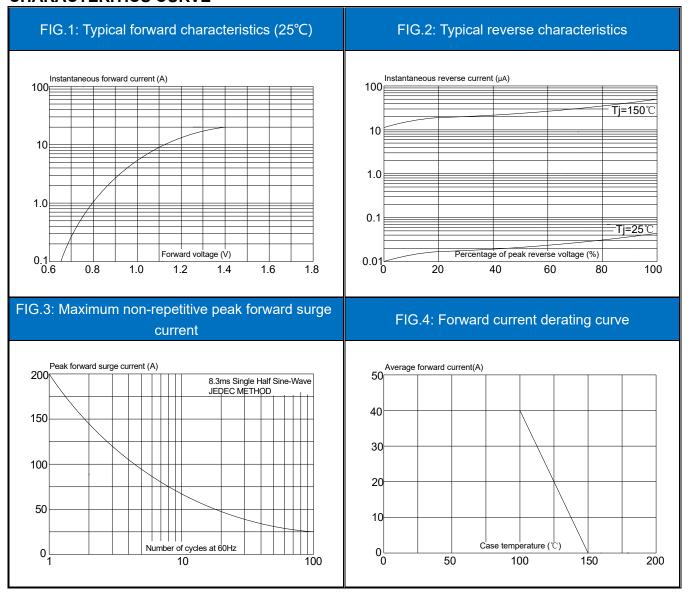


	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	1.45		1.55	0.057		0.061
С	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
Е	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
Н	15.10		15.50	0.594		0.610
J	5.40		5.65	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 (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)
TUBE	4.805	30	2,250

CHARACTERITICS CURVE





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