JIEJIE MICROELECTRONICS CO., LTD.

JEER6006ZCT 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

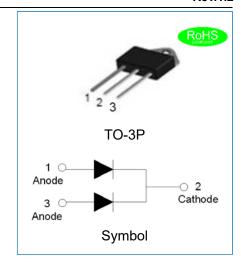
- ♦ Case: TO-3P molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Internally constructed isolated package is offered for ease of heat sinking with highest isolation voltage
- ♦ Weight:4.805gram



Parameter	Symbol	JEER6006ZCT	Unit
Maximum repetitive peak reverse voltage	VRRM	600	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _C =100 ℃	I _{F(AV)}	60	Α
Peak forward surge current: 10ms single half sine-wave superimposed on rated load(per diode)	1	180	٨
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load(per diode)	IFSM	200	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}$

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)	Trivio isolation voltage	sinusoidal waveform;		_		
		clean and dust free				
C	laciation conscitance	from cathode to external		10	-	pF
C _{isol}	Isolation capacitance	heatsink	-			



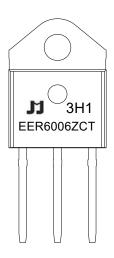
$\textbf{ELECTRICAL CHARACTERISTICS} (Rating at 25 °C \ case temperature unless otherwise specified.)$

Parame	ter	Symbol	Min.	Тур.	Max.	Unit
F	I _F =30A,T _j =25℃		-	1.65	2.0	V
Forward voltage	I _F =30A,T _j =150°C	V _F	-	1.35	-	V
Davis	V _R =600V,T _j =25℃		-	-	- 5	
Reverse current	V _R =600V,T _j =150°C	l _R	-	-	400	μA
	I _F =30A,V _R =30V, di/dt=200A/μs,T _i =25°C	-	41	90		
Reverse recovery time	I _F =30A,V _R =200V, di/dt=200A/μs,T _j =25°C	t _{rr}	-	51	-	ns
	I _F =30A,V _R =200V, di/dt=200A/μs,T _j =125°C		-	90	-	
Poak roverse recovery current	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C	l	1	5.5	-	A
Peak reverse recovery current	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =125℃	I _{RM}	-	12.5	-	A
Deceyared charge	I _F =30A,V _R =200V, di/dt=200A/μs, T _j =25°C		-	160	-	20
Recovered charge	Vered charge $I_F = 30 A, V_R = 200 V, \\ di/dt = 200 A/\mu s, T_j = 125 ^{\circ} C$	Qr	-	580	-	nC

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
60	I _{F(AV)} =60A
06	V _{RRM} : 600V
Z	Package: TO-3P
СТ	Common cathode

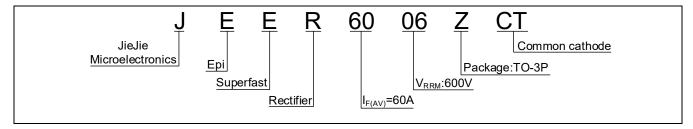
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

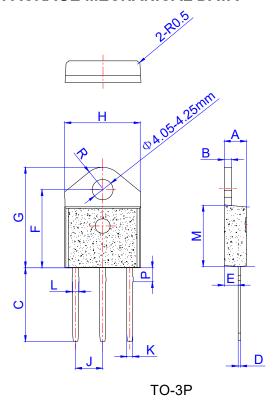
_							
	2018	2019	2020	2021	2022	2023	2024
	Н	I	J	K	L	М	Ν
	2025	2026	2027	2028	2029	2030	
	0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

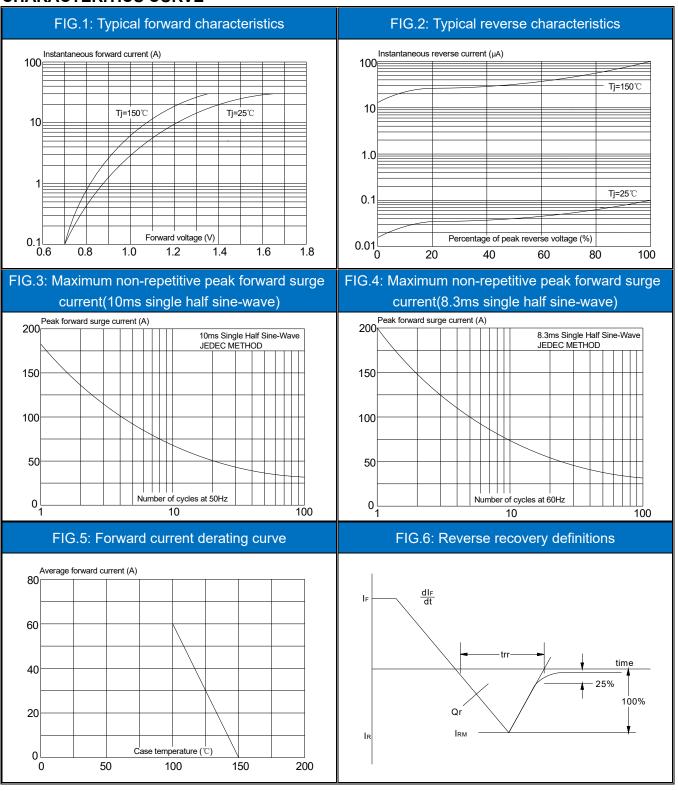


	Dimensions						
Ref.		Millimete	Millimeters		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	4.40		4.60	0.173		0.181	
В	1.45		1.55	0.057		0.061	
С	14.35		15.60	0.565		0.614	
D	0.50		0.70	0.020		0.028	
E	2.70		2.90	0.106		0.114	
F	15.80		16.50	0.622		0.650	
G	20.40		21.10	0.803		0.831	
Н	15.10		15.50	0.594		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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