JIEJIE MICROELECTRONICS CO., LTD.

JEUR2006ZCT EPI ULTRAFAST RECOVERY RECTIFIER

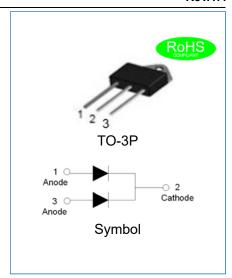
Rev.1.4

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
- ♦ Ultrafast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- ♦ Applications for PFC circuit, inverter circuit

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



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

Parameter	Symbol	JEUR2006ZCT	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum DC blocking voltage	V _{DC}	600	V
Maximum average forward current at T _C =90 ℃	I _{F(AV)}	20	Α
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	$^{\circ}$

ISOLATION CHARACTERISTICS

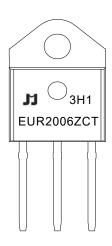
Symbol	Parameter	Conditions	Min.	Тур.	Max.	Unit
		50Hz≤f≤60Hz;RH≤65%;from				
V: ((DMO)	RMS isolation voltage	all pins to external heatsink;			2500	\/
Visol(RMS)	Rivio isolation voltage	sinusoidal waveform;		_	2500	v
		clean and dust free				
C	loolation consoitance	from cathode to external	- 10	-	pF	
C _{isol}	Isolation capacitance	heatsink				

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =10A,T _j =25℃	V _F	-	-	1.5	V
Forward Voltage	I _F =10A,T _j =150℃		-	-	1.3	
D	V _R =600V,T _j =25℃		-	1	5	μΑ
Reverse current	V _R =600V,T _j =150℃	l _R	-	-	200	
Reverse recovery time	IF=0.5A, IR=1A, I _{rr} =0.25A.	t _{rr}	-	-	50	ns

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	1	2	-	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
20	I _{F(AV)} =20A
06	V _{RRM} :600V
Z	Package:TO-3P
СТ	Common cathode

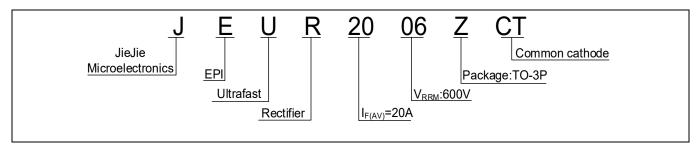
 $\underline{\mathbf{x}}$ H1: Month, 1, 2, 3 \sim 9, A, B, C

3<u>x</u>1:

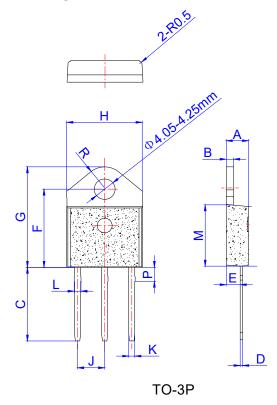
<u>~~··</u>						
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

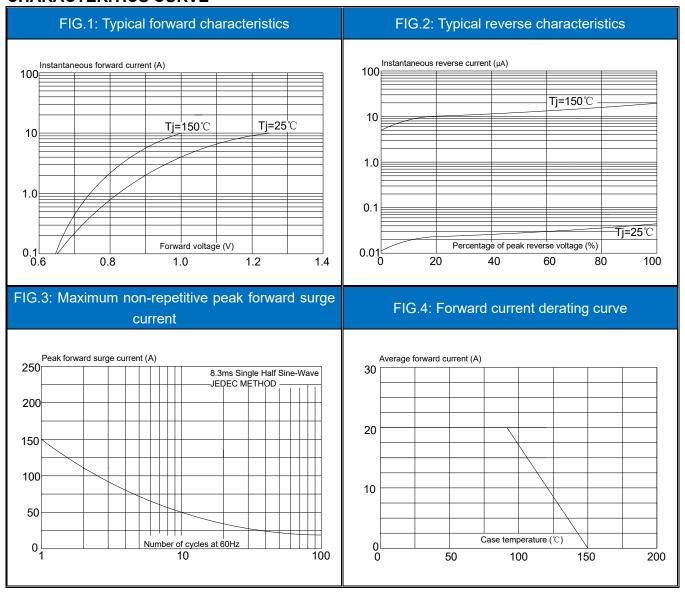


	Dimensions					
Ref.		Millimete	rs Inches		Inches	
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	4.40		4.60	0.173		0.181
В	1.45		1.55	0.057		0.061
С	14.35		15.60	0.565		0.614
D	0.50		0.70	0.020		0.028
Е	2.70		2.90	0.106		0.114
F	15.80		16.50	0.622		0.650
G	20.40		21.10	0.803		0.831
Н	15.10		15.50	0.594		0.610
J	5.40		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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