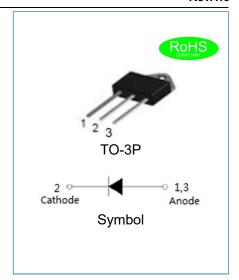
JIEJIE MICROELECTRONICS CO., LTD.

JEUR3006ZW EPI ULTRAFAST RECOVERY RECTIFIER

Rev.1.6

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
- Active PFC in air conditioner, S.M.P.S Power Factor Correction (PFC) and half bridge/full-bridge switched-mode power supplies



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	JEUR3006ZW	Unit	
Maximum repetitive peak reverse voltage	V_{RRM}	600	٧	
Maximum RMS voltage	V _{RMS}	420	٧	
Maximum DC blocking voltage	V_{DC}	600	٧	
Average forward current at Tc=70°C	I _{F(AV)}	30	Α	
Peak forward surge current: 10ms single half sine-wave superimposed on rated load		170	^	
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I FSM	190	A	
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	${\mathbb C}$	

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	V
C _{isol}	Isolation capacitance	from cathode to external heatsink	-	10	-	pF

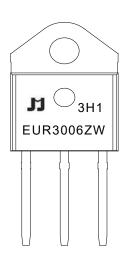


Parameter :			Min.	Тур.	Max.	Unit	
Famoural coaltains Oliviana	T _j =25℃	.,	-	1.35	1.8	V	
Forward voltage @I _F =30A	@I _F =30A		-	0.96	-	V	
DC reverse current at rated	T _j =25℃		-	-	5	μА	
DC blocking voltage	T _j =150℃	l _R	-	-	300		
	I_F =1A, V_R =30V, dI_F/dt =100A/ μ s, T_j =25 $^{\circ}$ C	t _{rr}	-	37	65	ns	
Reverse recovery time	I_F =30A, V_R =200V, dI_F/dt =200A/ μ s, T_j =25 $^{\circ}$ C		-	80	-		
	I _F =30A,V _R =200V, dI _F /dt=200A/µs,T _j =125°C		-	130	-		
Pook roverse recovery current	I_F =30A, V_R =200V, di/dt=200A/ μ s, T_j =25°C		-	10	-	А	
Peak reverse recovery current	I _F =30A,V _R =200V, di/dt=200A/μs,T _j =125°C	- I _{RM}	-	18	-	A	
Decemend shares	I_F =30A, V_R =200V, dI_F/dt =200A/ μ s, T_j =25°C		-	380	-	-0	
Recovered charge	I _F =30A,V _R =200V, dI _F /dt=200A/μs,T _j =125°C	Q _r	-	1150	-	nC	

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-c)}	Thermal resistance from junction to case	-	1.5	-	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
30	I _{F(AV)} =30A
06	V _{RRM} :600V
ZW	Package:TO-3P

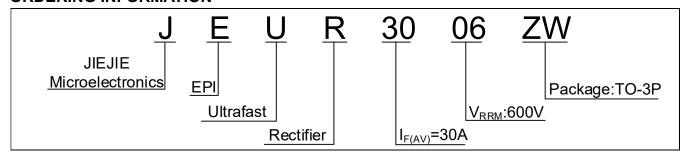
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

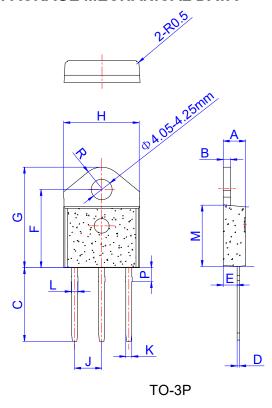
-	_						
	2018	2019	2020	2021	2022	2023	2024
	Н	ı	J	K	L	М	Ν
	2025	2026	2027	2028	2029	2030	
	0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

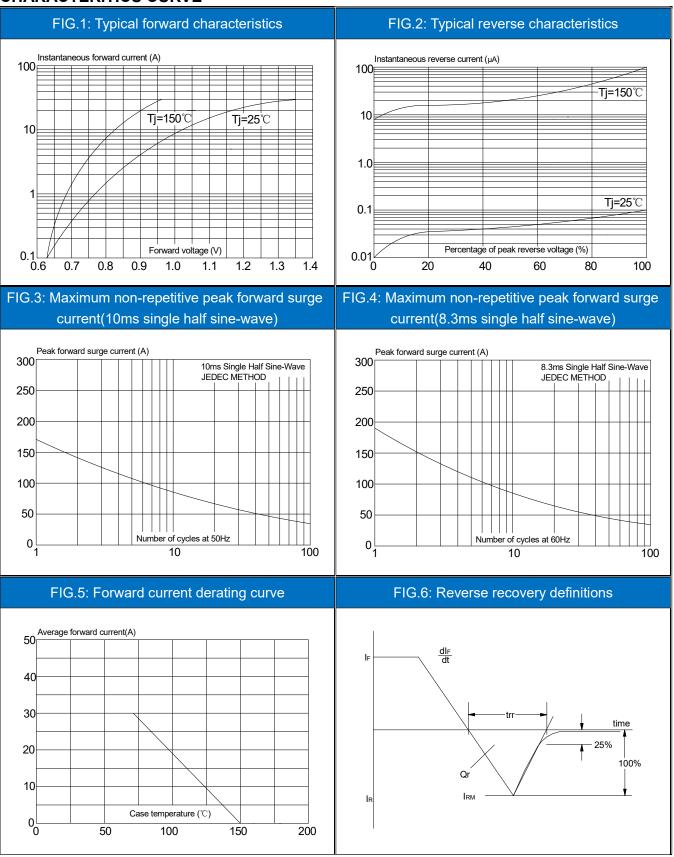


	Dimensions					Dime		
Ref.	Millimeters			Inches				
	Min.	Тур.	Max.	Min.	Тур.	Max.		
Α	4.40		4.60	0.173		0.181		
В	1.45		1.55	0.057		0.061		
С	14.35		15.60	0.565		0.614		
D	0.50		0.70	0.020		0.028		
E	2.70		2.90	0.106		0.114		
F	15.80		16.50	0.622		0.650		
G	20.40		21.10	0.803		0.831		
Н	15.10		15.50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

CHARACTERITICS CURVE





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