

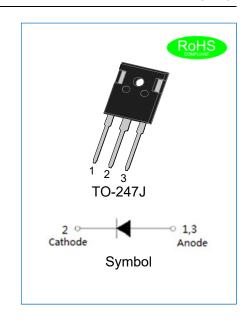
JIEJIE MICROELECTRONICS CO., LTD.

JEUR6006SW EPI ULTRAFAST RECOVERY RECTIFIER

Rev.1.5

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 continuous current mode (CCM) power factor correction (PFC), active PFC in air conditioner, and half bridge full bridge switched-mode power supplies



MECHANICAL DATA

- ♦ Case: TO-247J molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:6 gram

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

Parameter	Symbol	JEUR6006SW	Unit
Maximum repetitive peak reverse voltage	VRRM	650	V
Maximum RMS voltage	VRMS	460	V
Maximum DC blocking voltage	V _{DC}	650	V
Average forward current at T _{mb} =132℃	I _{F(AV)}	60	Α
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	I _{FSM}	600	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	660	А
Junction temperature and storage temperature range	Tj,Tstg	-55 to +150	${\mathbb C}$

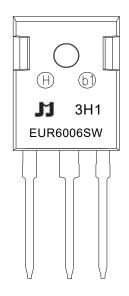


Parameter			Min.	Тур.	Max.	Unit
F	I _F =60A,T _j =25℃		-	1.35	1.65	V
Forward voltage	I _F =60A,T _j =150°C	V _F	-	1.1	1.45	
_ ,	V _R =600V,T _j =25℃		-	-	5	μA
Reverse current	V _R =600V,T _j =150℃	l _R	-	-	500	
Reverse recovery time	I _F =1A,V _R =30V, di/dt=100A/μs,T _j =25°C	t _{rr}	-	42	-	ns
	I _F =50A,V _R =400V, di/dt=200A/μs,T _j =25°C		-	75	-	
	I _F =50A,V _R =400V, di/dt=200A/µs,T _j =125℃		-	120	-	
Dock reverse receivers ourrent	I _F =50A,V _R =400V, di/dt=200A/μs,T _j =25°C		-	10	-	А
Peak reverse recovery current	I _F =50A,V _R =400V, di/dt=200A/μs,T _j =125°C	I _{RM}	-	18	-	
Decement shares	I _F =50A,V _R =400V, di/dt=200A/μs,T _j =25°C		-	400	-	 C
Recovered charge	I _F =50A,V _R =400V, di/dt=200A/µs,T _j =125℃	Qr	-	1100	-	nC

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-mb)}	Thermal resistance from junction to mounting base	-	-	1	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient	1	45	1	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
60	I _{F(AV)} =60A
- 00	, ,
06	V _{RRM} :650V
SW	Package:TO-247J

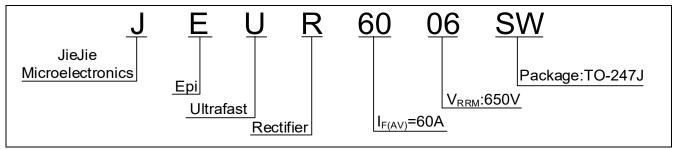
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

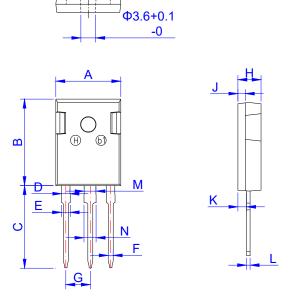
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



Ф3.8+0.1 -0

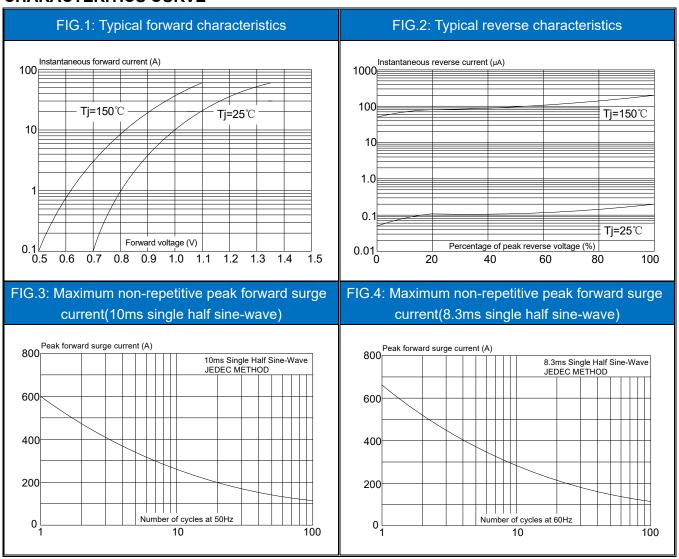
	Dimensions					
Ref.	ef. Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	15.50	15.80	16.10	0.610	0.622	0.634
В	20.80	21.00	21.20	0.819	0.827	0.835
С	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	5.25		5.65	0.207		0.222
Н	4.80	5.00	5.20	0.189	0.197	0.205
J	1.90	2.00	2.10	0.075	0.079	0.083
K	2.20	2.35	2.50	0.087	0.093	0.098
L	0.41	0.60	0.79	0.016	0.024	0.031
М	2.80	3.00	3.20	0.110	0.118	0.126
N	2.90	3.10	3.30	0.114	0.122	0.130

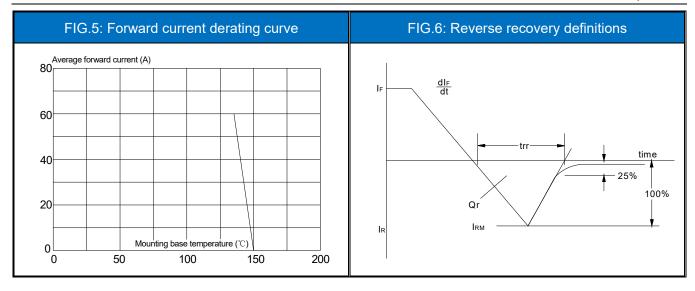
TO-247J

PACKAGE INFORMATION-TO-247J

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	6	30	2,250

CHARACTERITICS CURVE





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