

JIEJIE MICROELECTRONICS CO., LTD.

JEUR6004SW EPI ULTRAFAST RECOVERY RECTIFIER

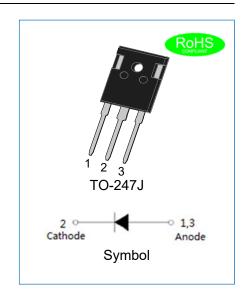
Rev.1.4

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

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	JEUR6004SW	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	400	V
Maximum DC blocking voltage	V _{DC}	400	V
Average forward current at T _{mb} =125℃	I _{F(AV)}	60	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	600	А
Junction temperature and storage temperature range	T_{j} , T_{stg}	-55 to +150	${\mathbb C}$

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

Parameter			Min.	Тур.	Max.	Unit
Forward voltage	I _F =60A,T _j =25℃	V_F	-	1.15	1.45	V
Forward voltage	I _F =60A,T _j =150℃	VF	-	0.95	1.35	
Reverse current	V _R =400V,T _j =25℃	I_	-	-	5	μΑ
	V _R =400V,T _j =150°C	IR	-	-	500	
	I _F =0.5A,I _R =1A,I _{rr} =0.25A		-	-	75	ns
Reverse recovery time	I _F =1A,V _R =30V, di/dt=200A/μs,T _j =25°C	t _{rr}	-	29	-	

THERMAL RESISTANCES

Symbol	Parameter		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		45	1	°C/W

MARKING



EUR	EPI Ultrafast Recovery Rectifier
60	I _{F(AV)} =60A
04	V _{RRM} :400V
SW	Package:TO-247J

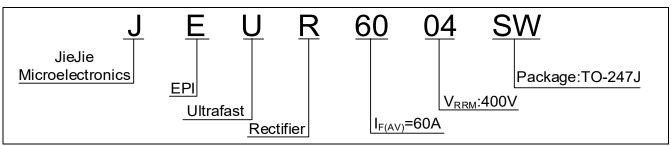
xH1: Month, 1/2/3~9/A/B/C

3<u>x</u>1:

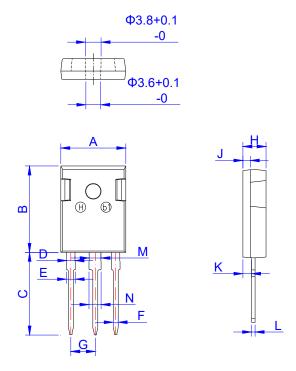
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



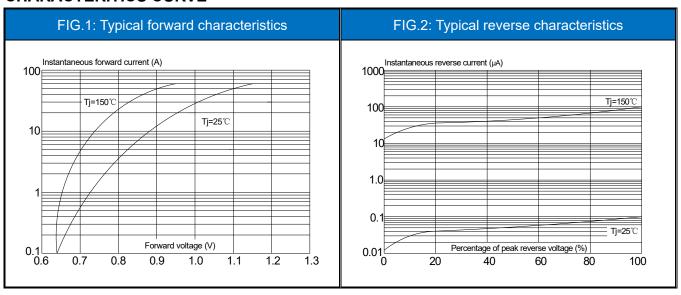
	Dimensions						
	Dimensi				nsions		
Ref.	Millimeters			Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	15.50	15.80	16.10	0.610	0.622	0.634	
В	20.80	21.00	21.20	0.819	0.827	0.835	
С	19.70	20.00	20.30	0.776	0.787	0.799	
D	1.80	2.00	2.20	0.071	0.079	0.087	
E	1.90	2.10	2.30	0.075	0.083	0.091	
F	1.00	1.20	1.40	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	

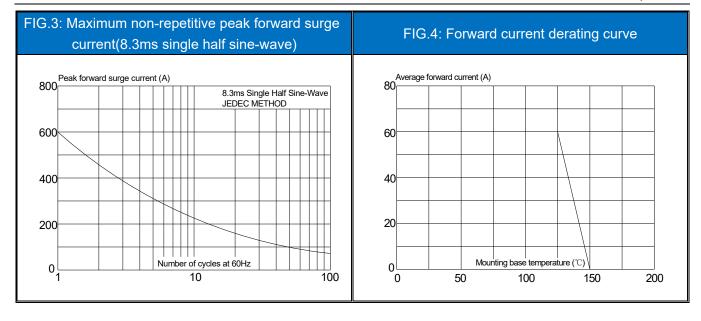
TO-247J

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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