



JEUR6004SL

EPI ULTRAFAST RECOVERY RECTIFIER

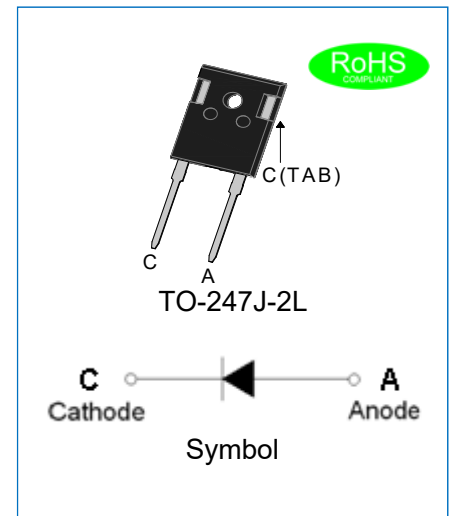
Rev.1.6

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

MECHANICAL DATA

- ✧ Case: TO-247J-2L molded plastic
- ✧ Terminals: Solder plated, solderable per J-STD-002
- ✧ Weight: 5.75gram



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

Parameter	Symbol	JEUR6004SL	Unit
Maximum repetitive peak reverse voltage	V_{RRM}	400	V
Maximum DC blocking voltage	V_{DC}	400	V
Average forward current at $T_{mb}=125^{\circ}\text{C}$	$I_{F(AV)}$	60	A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	600	A
Junction temperature and storage temperature range	T_j, T_{stg}	-55 to +150	$^{\circ}\text{C}$

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

Parameter		Symbol	Min.	Typ.	Max.	Unit
Forward voltage	$I_F=60A, T_J=25^{\circ}C$	V_F	-	1.15	1.45	V
	$I_F=60A, T_J=150^{\circ}C$		-	0.95	1.35	
Reverse current	$V_R=400V, T_J=25^{\circ}C$	I_R	-	-	5	μA
	$V_R=400V, T_J=150^{\circ}C$		-	-	500	
Reverse recovery time	$I_F=0.5A, I_R=1A, I_{rr}=0.25A$	t_{rr}	-	55	75	ns
	$I_F=1A, V_R=30V, di/dt=200A/\mu s, T_J=25^{\circ}C$		-	29	45	

THERMAL RESISTANCES

Symbol	Parameter	Min.	Typ.	Max.	Unit
$R_{th(j-a)}$	Thermal resistance from junction to ambient	-	40	-	$^{\circ}C/W$
$R_{th(j-mb)}$	Thermal resistance from junction to mounting base	-	-	1	$^{\circ}C/W$

MARKING

EUR	EPI Ultrafast Recovery Rectifier
60	$I_{F(AV)}=60A$
04	$V_{RRM}:400V$
SL	Package:TO-247J-2L

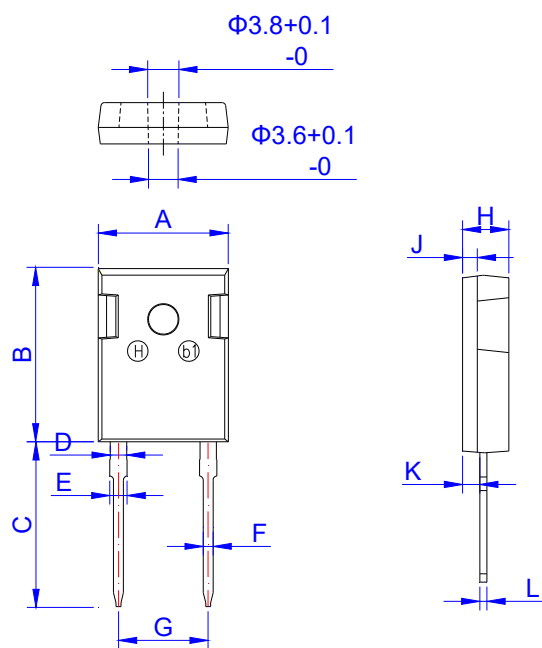
xH1: Month, 1/2/3~9/A/B/C3x1:

2018	2019	2020	2021	2022	2023	2024
H	I	J	K	L	M	N
2025	2026	2027	2028	2029	2030	...
O	P	Q	R	S	T	...

3Hx: Batch number**ORDERING INFORMATION**

J	E	U	R	60	04	SL
JieJie Microelectronics	EPI Ultrafast	Rectifier		$I_{F(AV)}=60A$	$V_{RRM}:400V$	Package: TO-247J-2L

PACKAGE MECHANICAL DATA



TO-247J-2L

Ref.	Dimensions					
	Millimeters			Inches		
	Min.	Typ.	Max.	Min.	Typ.	Max.
A	15.50	15.80	16.10	0.610	0.622	0.634
B	20.80	21.00	21.20	0.819	0.827	0.835
C	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	10.50		11.30	0.413		0.445
H	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

PACKAGE INFORMATION-TO-247J-2L

OUTLINE	UNIT WEIGHT (g/PCS) TYP	TUBE (PCS)	PER CARTON (PCS)
TUBE	5.75	30	2,250

CHARACTERISTICS CURVE

FIG.1: Typical forward characteristics

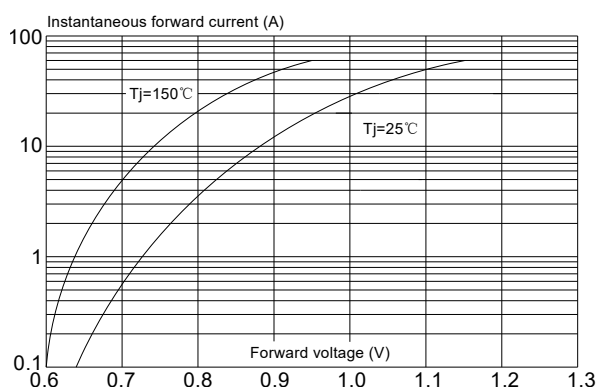


FIG.2: Typical reverse characteristics

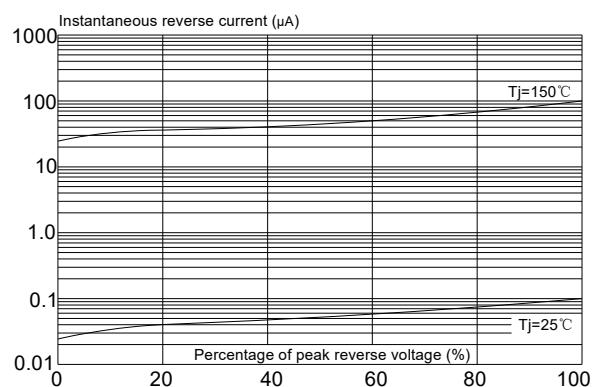


FIG.3: Maximum non-repetitive peak forward surge current(8.3ms single half sine-wave)

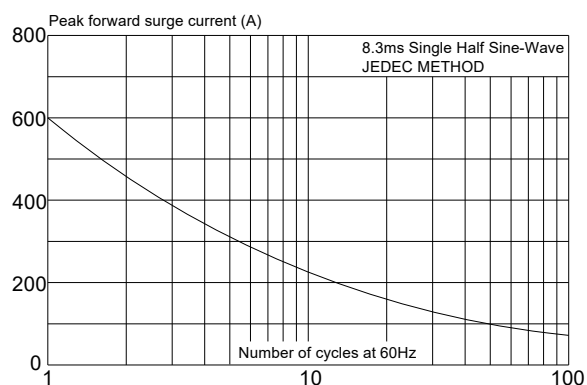
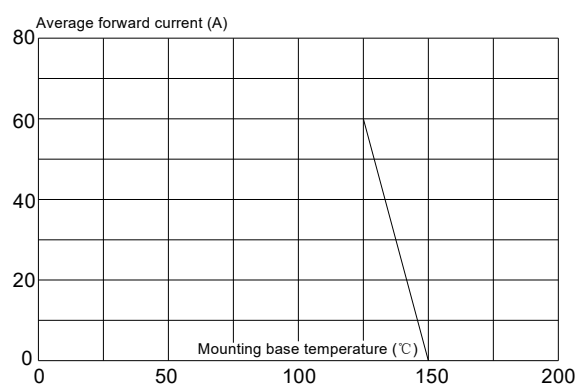


FIG.4: Forward current derating curve



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