

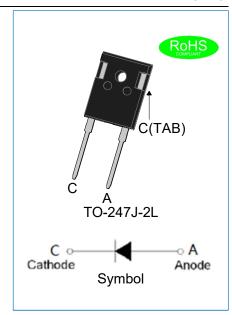
JIEJIE MICROELECTRONICS CO., LTD.

JECR6006SL EPI HYPERFAST SOFT RECOVERY RECTIFIER

Rev.1.3

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
- ♦ Hyperfast recovery time and soft recovery characteristics
- ♦ Low recovery loss
- Applications for UPS, EV charger, welding machine, and air conditioner



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℃ ambient temperature unless otherwise specified.)

Parameter	Symbol	JECR6006SL	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	600	V
Maximum RMS voltage	V _{RMS}	420	V
Maximum DC blocking voltage	V _{DC}	600	V
Average forward current at T _{mb} ≤116°C	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	T_j, T_{stg}	-55 to +150	$^{\circ}$



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

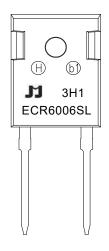
Parameter			Min.	Тур.	Max.	Unit
Famusand valle as	I _F =60A,T _j =25℃		-	2	2.4	V
Forward voltage	I _F =60A,T _j =150°C	V _F	-	1.55	2	
Davis	V _R =600V,T _j =25℃		-	2	5	μА
Reverse current	V _R =600V,T _j =150℃	l _R	-	-	500	
	I _F =1A,V _R =30V, di/dt=50A/µs,T _j =25℃		-	-	50	ns
Reverse recovery time	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =25°C	t _{rr}	-	40	-	
	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =125°C		-	101	-	
Dools massage management	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =25°C		-	3.7	-	A
Peak reverse recovery current	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =125℃	I _{RM}	-	11	-	
Davarra sharra	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =25°C		-	74	-	
Reverse charge	I _F =60A,V _R =400V, di/dt=200A/μs,T _j =125℃	Q _r	-	559	-	nC

THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
R _{th(j-mb)}	Thermal resistance from junction to mounting base	-	-	0.44	°C/W
R _{th(j-a)}	Thermal resistance from junction to ambient free air	ı	45	-	°C/W



MARKING



ECR	EPI Hyperfast Recovery Rectifier
60	I _{F(AV)} =60A
06	V _{RRM} :600V
SL	Package:TO-247J-2L

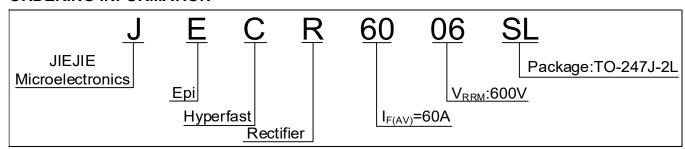
xH1: Month, 1/2/3~9/A/B/C

3**x**1:

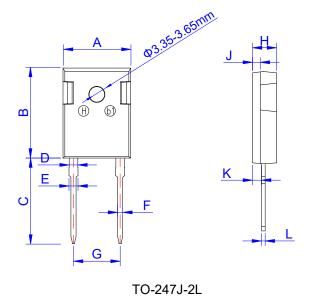
2018	2019	2020	2021	2022	2023	2024
Н	ı	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA

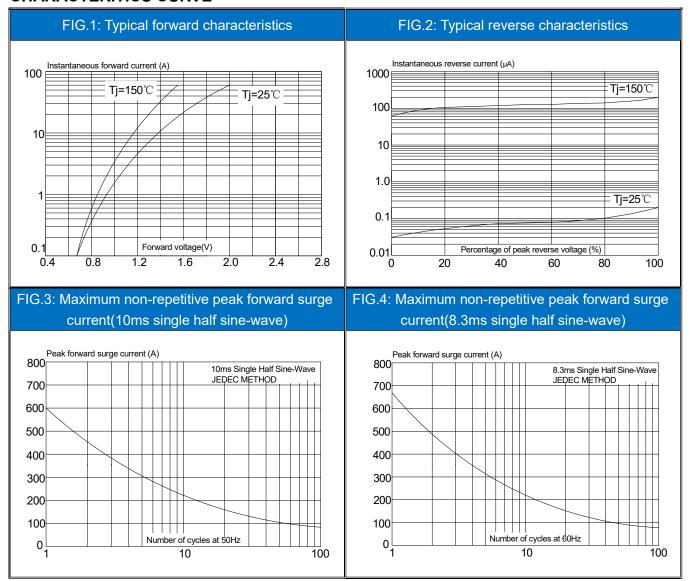


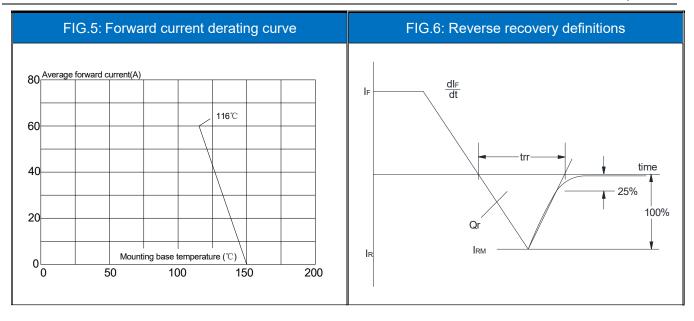
	Dimensions					
Ref.	Millimeters		Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	15.50	15.80	16.10	0.610	0.622	0.634
В	20.80	21.00	21.20	0.819	0.827	0.835
С	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
Е	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G	10.50		11.30	0.413		0.445
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

PACKAGE INFORMATION-TO-247J-2L

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

CHARACTERITICS CURVE





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