JIEJIE MICROELECTRONICS CO., LTD.

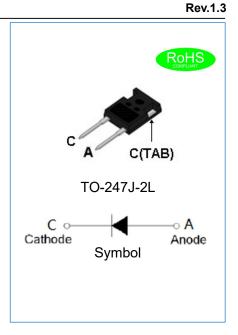
JECR3006SL EPI HYPERFAST SOFT RECOVERY RECTIFIER

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 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-2L molded plastic
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:5.75gram



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

Parameter	Symbol	JECR3006SL	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
Maximum average forward current T _{mb} ≤115°C, square-wave pulse, δ=0.5	I _{F(AV)}	30	А
Peak forward surge current: 10ms single half sine-wave superimposed on rated load	I _{FSM}	270	А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	300	А
Junction temperature and storage temperature range	T_{j},T_{stg}	-55 to +150	$^{\circ}\!$

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

Parame	ter	Symbol	Min.	Тур.	Max.	Unit
	T j =25 ℃		-	2.00	2.70	V
Forward voltage @I _F =30A	Tj=150℃	VF	-	1.35	1.75	
Maximum DC reverse current	T j =25 ℃		-	-	5	μA
at rated DC blocking voltage	T j =150 ℃	I _R	-	-	400	
	I _F =1A,V _R =30V, di/dt=200A/µs,Tj=25℃		-	19	23	ns
	I _F =30A,V _R =200V, di/dt=200A/μs,Tj=25℃	t _{rr}	-	36	-	
Reverse recovery time	I _F =30A,V _R =200V, di/dt=200A/µs,Tj=125℃		-	72	-	
	I _F =30A,V _R =400V, di/dt=500A/µs,Tj=25℃		-	30	-	
	I _F =30A,V _R =200V, di/dt=200A/μs,Tj=25℃	I _{RM}	-	3.8	-	A
Peak reverse recovery current	I _F =30A,V _R =200V, di/dt=200A/µs,T _i =125℃		-	7.8	-	
	I _F =30A,V _R =200V, di/dt=200A/μs,Tj=25℃	Qr	-	55	-	nC
Recovered charge	I _F =30A,V _R =200V, di/dt=200A/µs,T _j =125℃		-	300	-	

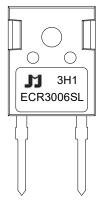
THERMAL RESISTANCES

Symbol	Parameter		Тур.	Max.	Unit
R _{th(j-mb)}	Thermal resistance from junction to mounting base	-	-	1	℃W
R _{th(j-a)}	Thermal resistance from junction to ambient free air	-	44	-	℃W

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MARKING



ECR	EPI Hyperfast Recovery Rectifier			
30	I _{F(AV)} =30A			
06	VRRM:600V			
SL Package:TO-247J-2L				

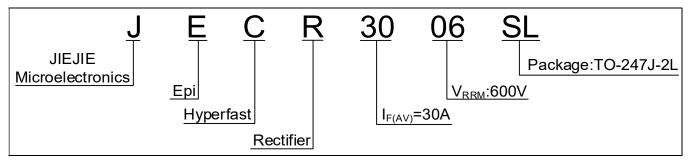
<u>x</u>H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

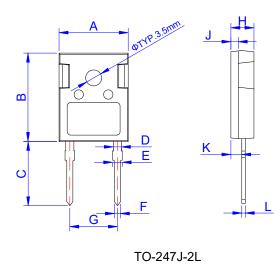
2018	2019	2020	2021	2022	2023	2024
Н	I	J	К	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION



PACKAGE MECHANICAL DATA



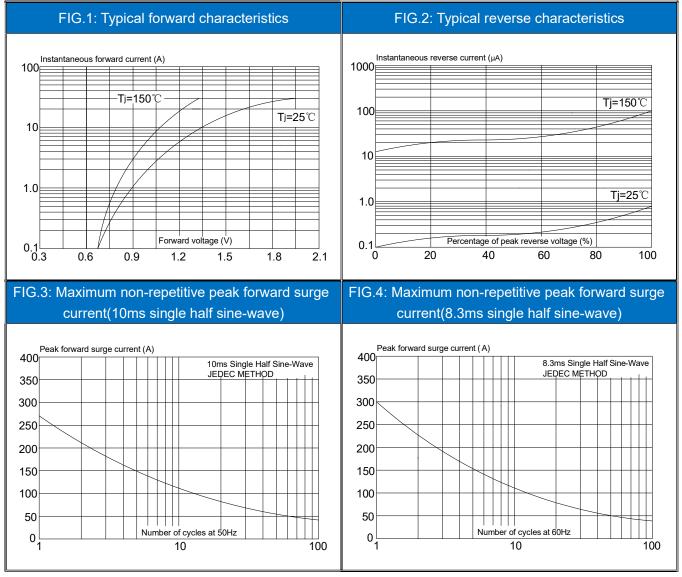
	Dimensions					
Ref.	Millimeters			Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.
Α	15.50	15.80	16.10	0.610	0.622	0.634
В	20.80	21.00	21.20	0.819	0.827	0.835
С	19.70	20.00	20.30	0.776	0.787	0.799
D	1.80	2.00	2.20	0.071	0.079	0.087
E	1.90	2.10	2.30	0.075	0.083	0.091
F	1.00	1.20	1.40	0.039	0.047	0.055
G		10.88			0.428	
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
К	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

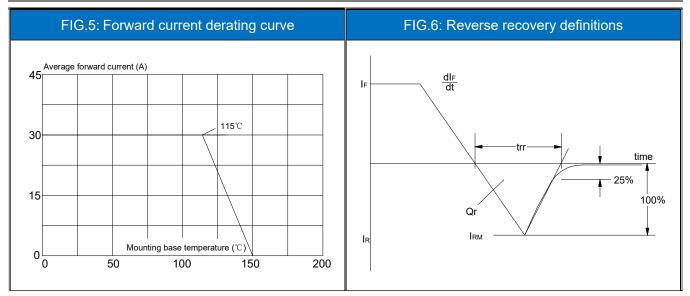
OUTLINE	UNIT WEIGHT (g/PCS) typ.	TUBE (PCS)	PER CARTON (PCS)	
TUBE	5.75	30	2,250	

CHARACTERITICS CURVE



JECR3006SL

JieJie Microelectronics CO., Ltd.



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