JIEJIE MICROELECTRONICS CO., LTD.

GP6012SL~GP6020SL GENERAL PURPOSE RECTIFIER

DESCRIPTION

- Plastic package has underwriters laboratories flammability classification 94V-0
- ♦ Glass passivated chip junction
- ♦ Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- ♦ Case: TO-247J-2L, molded plastic over passivated junction
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Polarity: Pin C denotes cathode end
- ♦ Weight: 5.682 gram

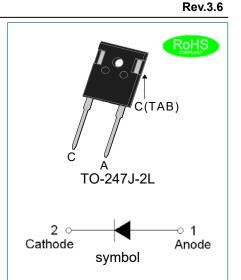
ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

Parameter		Symbol	GP6012SL	GP6016SL	GP6020SL	Unit
Maximum repetitive peak reverse voltage		Vrrm	1200	1600	2000	V
Maximum RMS voltage		Vrms	840	1120	1400	V
Maximum DC blocking voltage		VDC	1200	1600	2000	V
Average forward current at $T_{mb}\text{=}125^\circ\!\!\!\mathrm{C}$		lf(AV)	60			А
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		Ifsm	600	700		А
Maximum forward voltage @I⊧=60A		VF	1.2			V
Maximum DC reverse current	T j =25 ℃		10			μA
at rated DC blocking voltage	Tj=150℃	l _R	1.5			mA
Typical junction capacitance V _R =4.0V, f=1MHz		CJ	250			pF
Operating junction and storage temperature range		TJ,TSTG	-55 to +150			°C

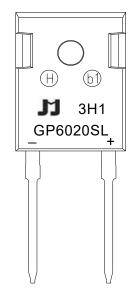
THERMAL RESISTANCES

Symbol	Parameter	Min.	Тур.	Max.	Unit
Rth(j-mb)	Thermal resistance from junction to mounting base	-	-	0.25	°C/W
Rth(j-a)	Thermal resistance from junction to ambient	-	40	-	°C/W

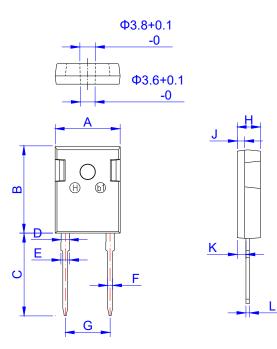


GP6012SL~GP6020SL

MARKING



PACKAGE MECHANICAL DATA



TO-247J-2L

PACKAGE INFORMATION-TO-247J-2L

OUTLINE	UNIT WEIGHT	TUBE	PER CARTON
	(g/PCS) TYP	(PCS)	(PCS)
TUBE	5.682	30	2,250

JieJie Microelectronics Co., Ltd.

G	General Purpose Rectifier
Р	Pin
60	IF(AV)=60A
20	V _{RRM} :2000V
SL	TO-247J-2L

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

3<u>x</u>1:

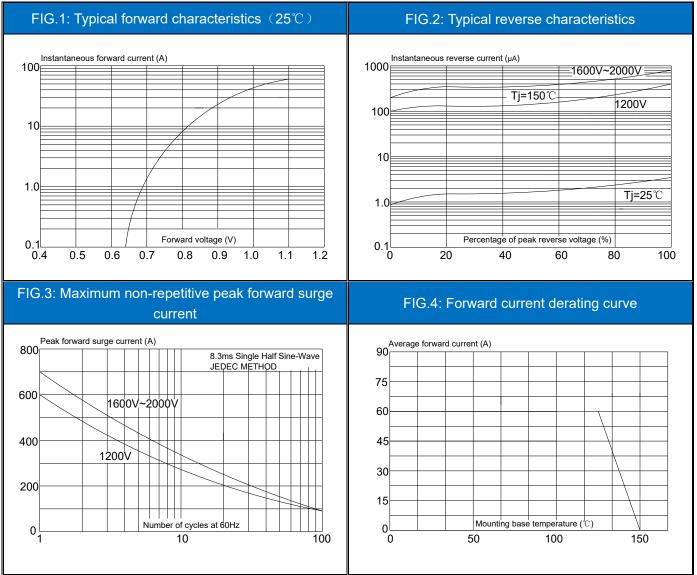
<u>×</u> 1.						
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	Ν
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

	Dimensions						
Ref.	Millimeters			Inches			
	Min.	Тур.	Max.	Min.	Тур.	Max.	
А	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	10.50		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	
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	

GP6012SL~GP6020SL

CHARACTERITICS CURVE



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