JIEJIE MICROELECTRONICS CO., LTD.

GP3012SL~GP3016SL GENERAL PURPOSE RECTIFIER

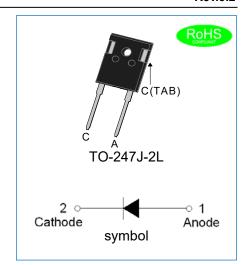
Rev.3.2

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.)

(Rating at 25 C ambient temperature unless otherwise specified.)					
Parameter		Symbol	GP3012SL	GP3016SL	Unit
Maximum repetitive peak reverse voltage		Vrrm	1200	1600	V
Maximum RMS voltage)	V _{RMS}	840	1120	V
Maximum DC blocking	voltage	V _{DC}	1200	1600	V
Average forward currer	nt at T∟=100℃	I _{F(AV)}	30		Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load		I _{FSM}	350		А
Maximum forward voltage @I _F =30A		V _F	1.2		V
			5		μΑ
		I _R	1	mA	
Typical junction capacitance V _R =4.0V, f=1MHz		Сл	120	180	pF
Operating junction and storage temperature range		TJ,Tstg	-55 to +150		$^{\circ}$ C



HERMAL RESISTANCES

Symbol	Parameter	GP3012SL	GP3016SL	Unit
R _{th(j-c)}	Junction to case	0.4	4	°C/W

MARKING



G	General Purpose Rectifier
Р	Pin
30	I _{F(AV)} =30A
12	V _{RRM} :1200V
SL	TO-247J-2L

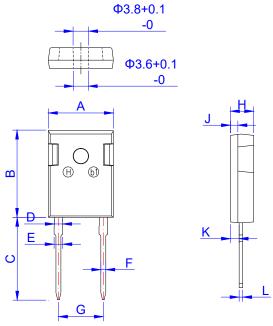
<u>x</u>H1: Month, 1/2/3~9/A/B/C

3**x**1:

2018	2019	2020	2021	2022	2023	2024
Н		٦	K	L	М	Ζ
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	T	

3Hx: Batch number

PACKAGE MECHANICAL DATA



TO-247J-2L

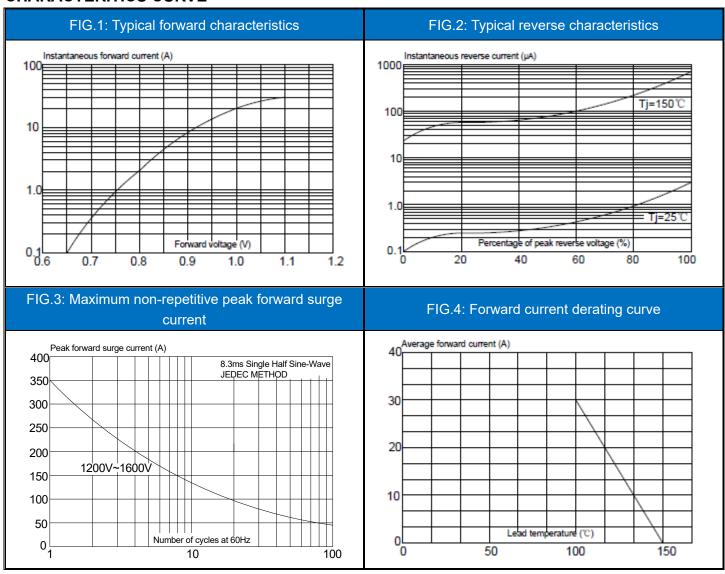
	Dimensions						
Ref.	Millimete		rs Inches		Inches		
	Min.	Тур.	Max.	Min.	Тур.	Max.	
Α	15.50	15.80	16.10	0.610	0.622	0.634	
В	20.80	21.00	21.20	0.819	0.827	0.835	
С	19.70	20.00	20.30	0.776	0.787	0.799	
D	1.80	2.00	2.20	0.071	0.079	0.087	
E	1.90	2.10	2.30	0.075	0.083	0.091	
F	1.00	1.20	1.40	0.039	0.047	0.055	
G	10.50		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	5.682	30	2,250	

CHARACTERITICS CURVE





JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable JieJie product documentation. Warranties granted by JieJie shall be deemed void for products used for any purpose not expressly set forth in applicable JieJie documentation. JieJie shall not be liable for any claims or damages arising out of products used in applications not expressly intended by JieJie as set forth in applicable JieJie documentation. The sale and use of JieJie products is subject to JieJie terms and conditions of sale, unless otherwise agreed by JieJie.

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 3.2nd version which is made in 13-Dec.-2023. This document supersedes and replaces all information previously supplied.

🔰 is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd.

Copyright ©2023 Jiangsu JieJie Microelectronics Co., Ltd. Printed All rights reserved.