

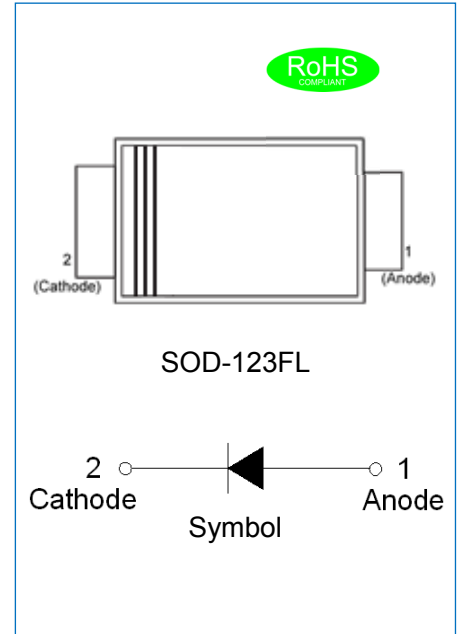


GS1000FL~GS1010FL GENERAL PURPOSE RECTIFIER

Rev.2.1

DESCRIPTION

- ✧ Plastic package has underwriters laboratories flammability classification 94V-0
- ✧ Exceeds environmental standards of MIL-S-19500/228
- ✧ For surface mounted applications in order to optimize board space
- ✧ Glass passivated chip junction
- ✧ Lead free in compliance with EU RoHS 2011/65/EU directive
- ✧ Low forward voltage drop



MECHANICAL DATA

- ✧ Case: JEDEC SOD-123FL molded plastic
- ✧ Terminals: Solder plated, solderable per MIL-STD-750, method 2026
- ✧ Polarity: Color band denotes cathode end
- ✧ Weight: 0.0165 gram

ABSOLUTE MAXIMUM RATING AND ELECTRICAL CHARACTERISTICS

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

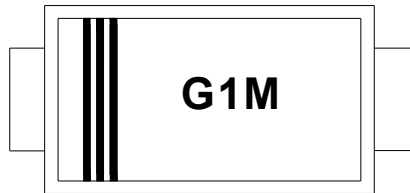
Parameter	Symbol	GS1000	GS1001	GS1002	GS1004	GS1006	GS1008	GS1010	Unit
		FL	FL	FL	FL	FL	FL	FL	
Maximum repetitive peak reverse voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum non-repetitive peak reverse voltage	V_{RSM}	55	110	220	440	660	880	1100	V
Maximum RMS voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum average forward current at $T_L=75^\circ\text{C}$	$I_{F(AV)}$	1.0							A
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	30							A
Maximum forward voltage @ $I_F=1.0\text{A}$	V_F	1.1							V
Maximum DC reverse current at rated DC blocking voltage	$T_j=25^\circ\text{C}$	5.0							μA
	$T_j=150^\circ\text{C}$	150							
Typical junction capacitance $V_R=4.0\text{V}$, $f=1\text{MHz}$	C_J	7							pF
Operating junction and storage temperature range	T_j, T_{stg}	-60 to +150							$^\circ\text{C}$

THERMAL RESISTANCES

Symbol	Parameter	GS1000	GS1001	GS1002	GS1004	GS1006	GS1008	GS1010	Unit
		FL	FL	FL	FL	FL	FL	FL	
$R_{th(j-L)}$	Junction to lead (note1)	20							$^{\circ}C/W$

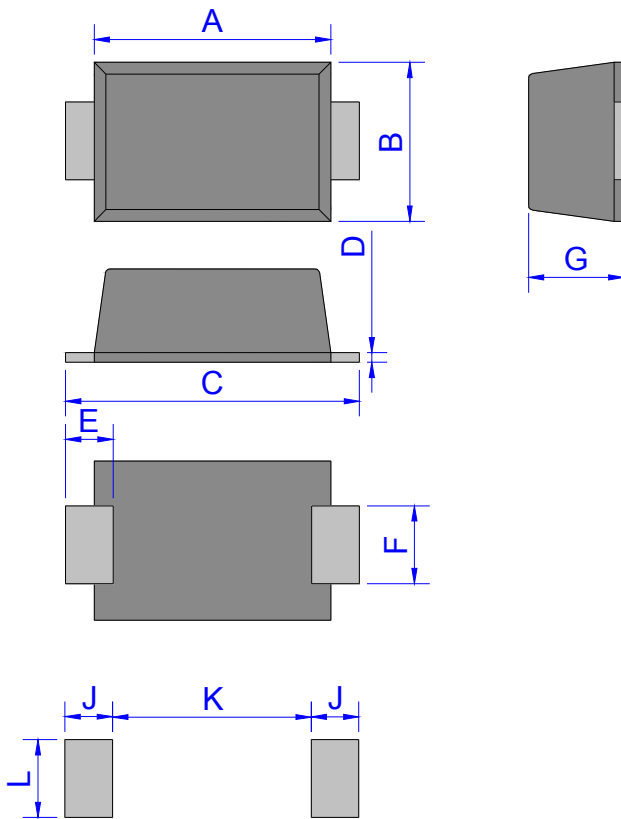
Note1: Thermal resistance from junction to lead mounted on P.C.B. with 4.0 mm x 4.0 mm copper pad areas.

MARKING



G	General Purpose Rectifier
1	$I_{F(AV)}=1.0A$
M	$V_{RRM}:1000V$

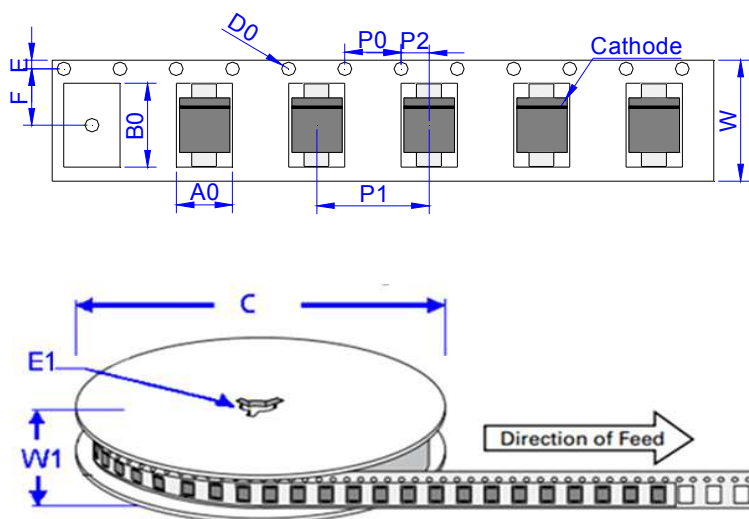
PACKAGE MECHANICAL DATA



SOD-123FL

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	2.60	3.00	0.102	0.118
B	1.60	2.00	0.063	0.079
C	3.45	3.95	0.136	0.156
D	0.10	0.25	0.004	0.01
E	0.3	0.9	0.012	0.035
F	0.80	1.20	0.031	0.047
G	0.95	1.35	0.037	0.053
J	1.30		0.051	
K		1.70		0.067
L	1.30		0.051	

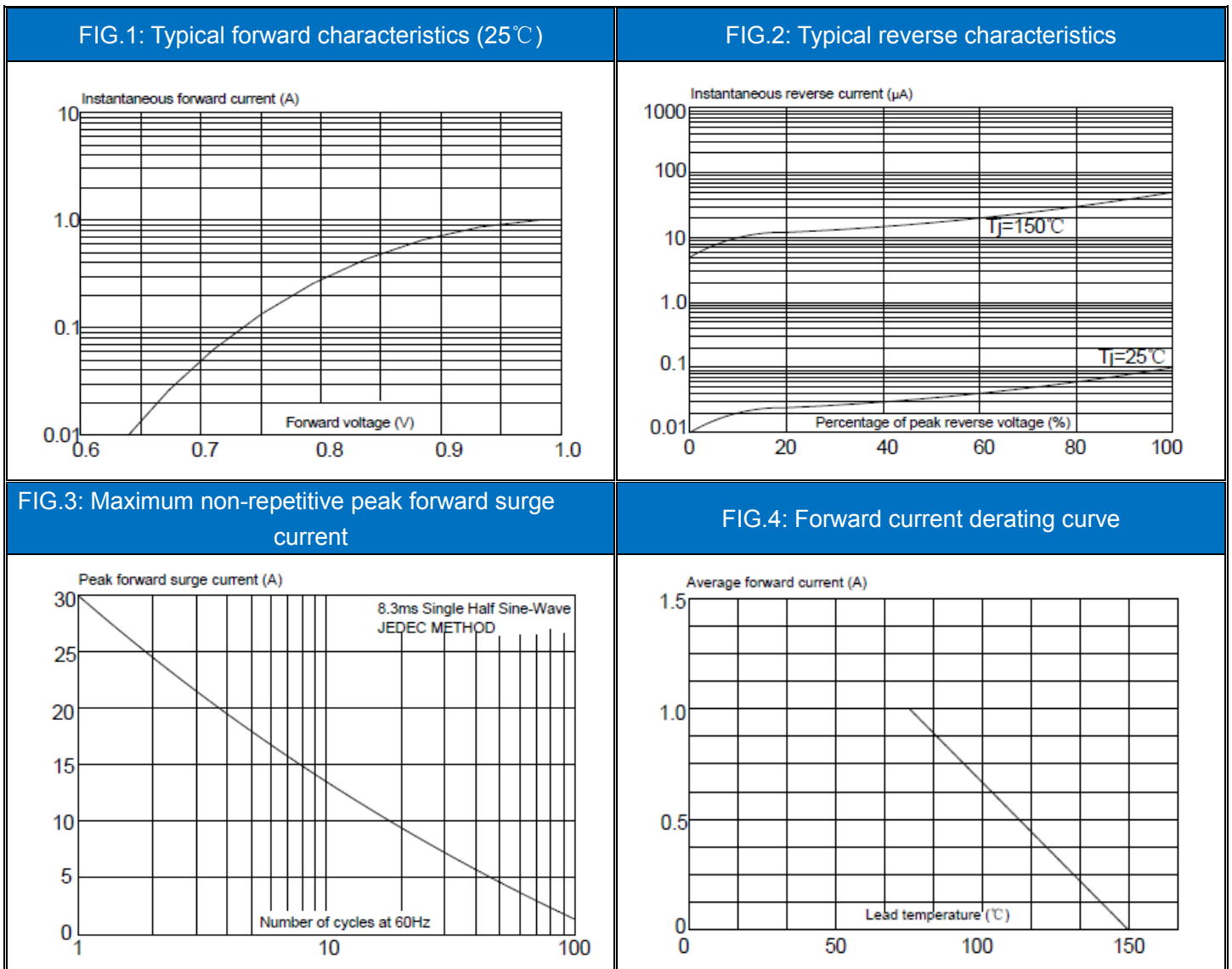
TAPE AND REEL SPECIFICATION-SOD-123FL



Ref.	Dimensions	
	Millimeters	Inches
A0	1.95 ± 0.3	0.077± 0.012
B0	3.95 ± 0.3	0.156 ± 0.012
C	178	7.0
D0	1.55 ± 0.1	0.061 ± 0.004
E	1.75 ± 0.2	0.069 ± 0.008
E1	13.3 ± 0.3	0.524± 0.012
F	3.50 ± 0.2	0.138 ± 0.008
P0	4.00 ± 0.2	0.157 ± 0.008
P1	4.00 ± 0.2	0.157 ± 0.008
P2	2.00 ± 0.2	0.079 ± 0.008
W	8.0± 0.2	0.315 ± 0.008
W1	11.5 ± 1.0	0.453 ± 0.039

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.0165	3,000	150,000	178

CHARACTERISTICS CURVE



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 2.1st version which is made in 15-Aug.-2018. This document supersedes and replaces all information previously supplied.

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

Copyright ©2018 Jiangsu JieJie Microelectronics Co.,Ltd. Printed All rights reserved.