CHINA BASE INTERNATIONAL

SOD-123-FL

A1(G1A)-A7(G1M)

www.china-base.com.hk

A1（G1A） THRU A7（G1M）

Surface Mount General Purpose Rectifier

Essential information; basic information

Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Switching for general purpose
- Meets MSL level 1, per J-STD-020, LF maximum peak of 260 °C

Typical Applications

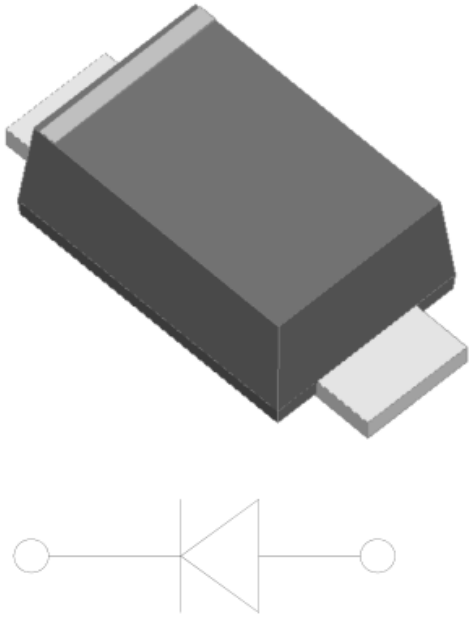
For use in general purpose switching rectification of power supply,inverters, converters, and freewheeling diodes for consumer and telecommunication.

Mechanical Data

- Package: SOD-123FL

Molding compound meets UL 94 V-0 flammabilityrating, RoHS-compliant

- Terminals: Tin plated leads, solderable perJ-STD-002 and JESD22-B102
- Polarity: Cathode line denotes the cathode end

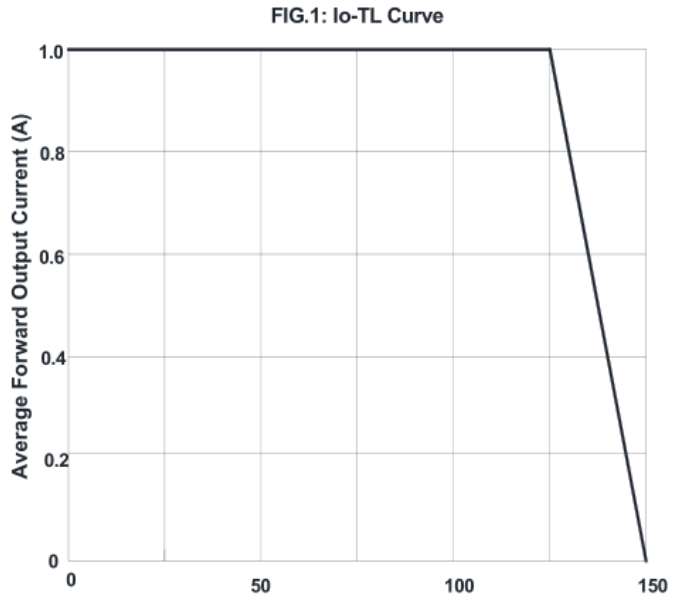


Maximum Ratings (Ta=25℃ Unless otherwise specified）

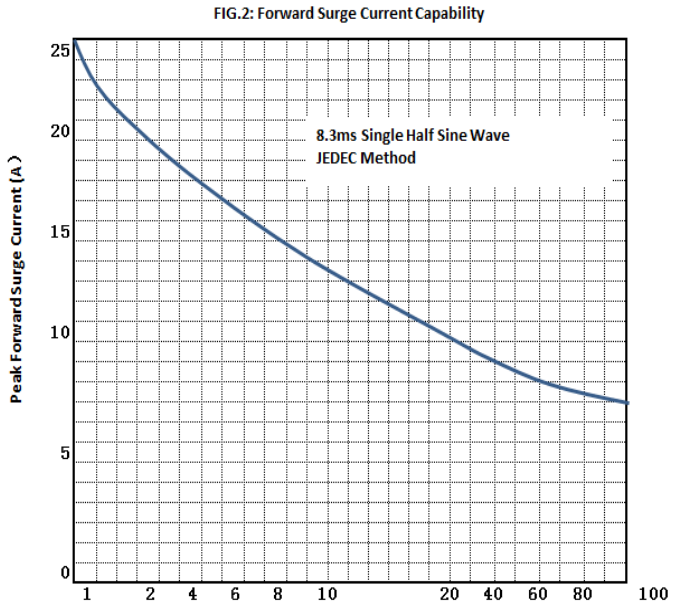
PARAMETER	SYMBOL	UNIT	A1	A2	A3	A4	A5	A6	A7
Alternate Name			G1A	G1B	G1D	G1G	G1J	G1K	G1M
Maximum Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Maximum RMS Voltage	VRMS	V	35	70	140	280	420	560	700
Maximum DC blocking Voltage	VDC	V	50	100	200	400	600	800	1000
Average rectified output current@60Hz sine wave, resistance load, TL (Fig.1)	IO	A	1.0						
Forward Surge Current (Non-repetitive)@60Hz Half-sine wave,1 cycle, Tj=25℃	IFSM	A	25						
Storage temperature	Tstg	℃	-55 ~ +125						
Junction temperature	Tj	℃	-55 ~ +125		-55 ~ +150				
Maximum instantaneous forward voltage drop per diode	VF（IFM=1.0A）	V	1.1						
Maximum DC reverse current at rated DC blocking voltage per diode	IR（Tj =25℃）	μA	5						
	IR（Tj =100℃）		100						

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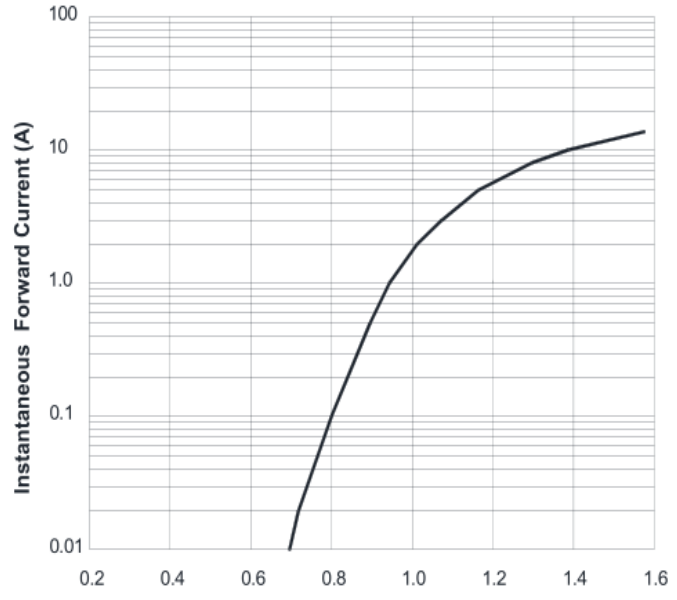
Characteristics (Typical)



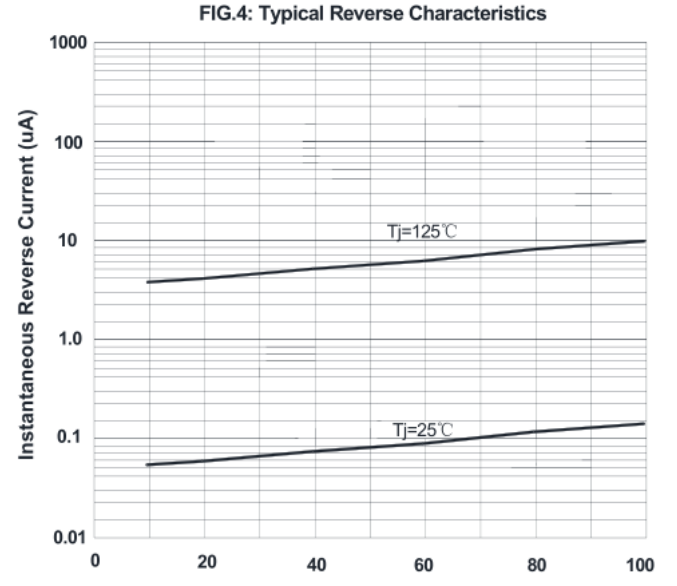
Lead Temperature (℃)



Number of Cycles



Instantaneous Forward Voltage(V)



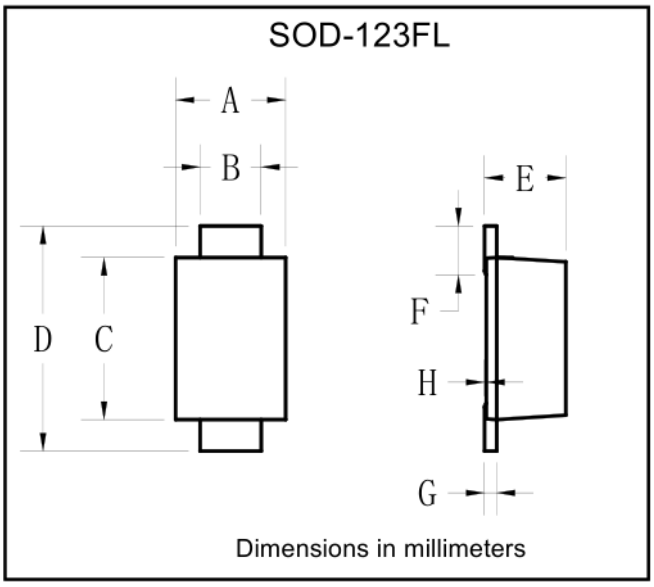
Percent of Rated Peak Reverse Voltage (%)

Ordering Information (Example)

type specification	manner of packin	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
A1-A7 G1A-G1M （SOD-123FL）	T/B	3000	24000	240000	7” reel
		10000	30000	300000	13” reel

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Outline Dimensions



SOD-123FL		
Dim	Min	Max
A	1.60	1.90
B	0.90	1.10
C	2.55	2.85
D	3.60	3.90
E	1.00	1.20
F	0.40	0.90
G	0.10	0.25
H	0.02	0.05

Disclaimer

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