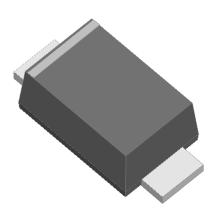




Surface Mount General Purpose Rectifier





Features

- Low profile package
- Ideal for automated placement
- Glass passivated chip junction
- Switching for general purpose
- High forward surge capability
- 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 Date

• Package: SOD-123FL

Molding compound meets UL 94 V-0 flammability rating, RoHS-compliant, halogen-free

• Terminals: Tin plated leads, solderable per

J-STD-002 and JESD22-B102

• Polarity: Cathode line denotes the cathode end

■Maximum Ratings (Ta=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	G1A	G1B	G1D	G1G	G1J	G1K	G1M
Device marking code			G1A	G1B	G1D	G1G	G1J	G1K	G1M
Repetitive peak reverse voltage	VRRM	V	50	100	200	400	600	800	1000
Average rectified output current @60Hz sine wave, Resistance load, Ta (FIG.1)	Ю	Α				1.0			
Surge(non-repetitive)forward current @ 60Hz half-sine wave,1 cycle, Tj=25℃	IFSM	А	30						
Storage temperature	Tstg	$^{\circ}$	-55 ~+150						
Junction temperature	Tj	°C	-55 ~+150						

■Electrical Characteristics (T_a=25°C Unless otherwise specified)

PARAMETER	SYMBOL	UNIT	TEST CONDITIONS	G1A	G1B	G1D	G1G	G1J	G1K	G1M
Maximum instantaneous forward voltage drop per diode	VF	V	IFM=1.0A	1.1						
Maximum DC reverse current at			Ta=25℃	5						
rated DC blocking voltage per diode	IRRM	μA	Ta=125°C	100						

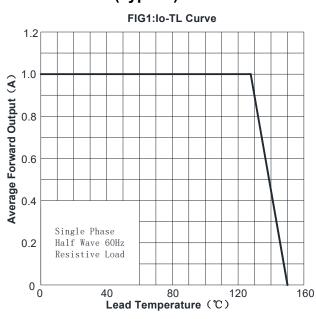


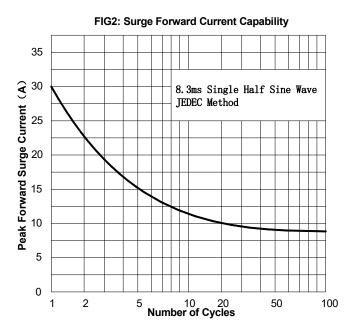
G1A THRU G1M

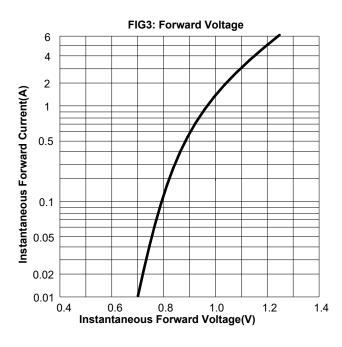
PARAMETER	SYMBOL	UNIT	G1A	G1B	G1D	G1G	G1J	G1K	G1M	
Thermal resistance	RøJ-A	°C/W	70 ¹⁾							
Thermal resistance	R ₀ J-L	C/VV	20 ¹⁾							

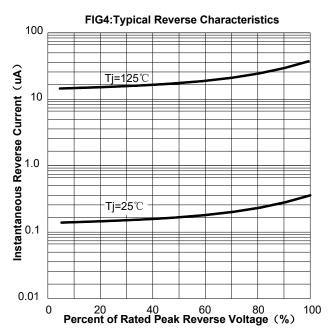
Note:

■ Characteristics(Typical)









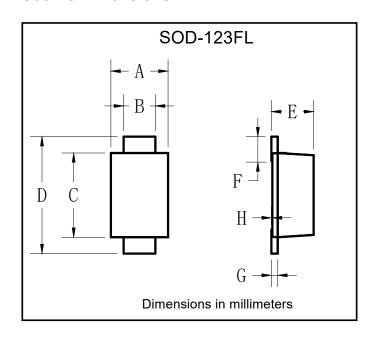
⁽¹⁾ Thermal resistance between junction and ambient and between junction and lead mounted on P.C.B with 3mm*3mm copper pad areas-

G1A THRU G1M

■Ordering Information (Example)

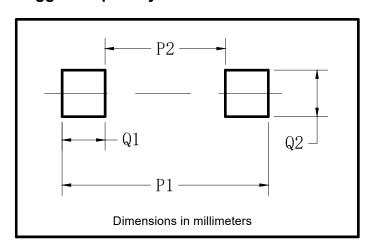
PREFERED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
G1A THRU G1M	F1	Approximate 0.0169	3000	15000	120000	7" reel
G1A THRU G1M	F2	Approximate 0.0169	2500	12500	100000	7" reel
G1A THRU G1M	F3	Approximate 0.0169	10000	30000	210000	13" reel
G1A THRU G1M	F4	Approximate 0.0169	3000	27000	108000	7" reel
G1A THRU G1M	F5	Approximate 0.0169	10000	20000	160000	13" reel
G1A THRU G1M	F6	Approximate 0.0169	3000	12000	60000	7" reel

■ Outline Dimensions



SOD-123FL					
Dim	Min	Max			
Α	1.60	1.90			
В	0.90	1.10			
С	2.55	2.85			
D	3.60	3.90			
Е	1.00	1.20			
F	0.40	0.90			
G	0.10	0.25			
Н	0.02	0.05			

■ Suggested pad layout



SOD-123FL				
Dim	Millimeters			
P1	3.90			
P2	1.90			
Q1	1.00			
Q2	1.50			



G1A THRU G1M

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