



GS1000FL~GS1010FL

SURFACE MOUNT RECTIFIER

Voltage Range 50 to 800 Volts

Current 1.0 Amperes

Features

- * For surface mounted applications
- * Low profile package
- * Ideal for automated placement
- * High temperature soldering : 260°C /10 seconds at terminals
- * Glass Passivated Chip Junction
- * Pb free product are available : 99% Sn above can meet Rohs environment substance directive request

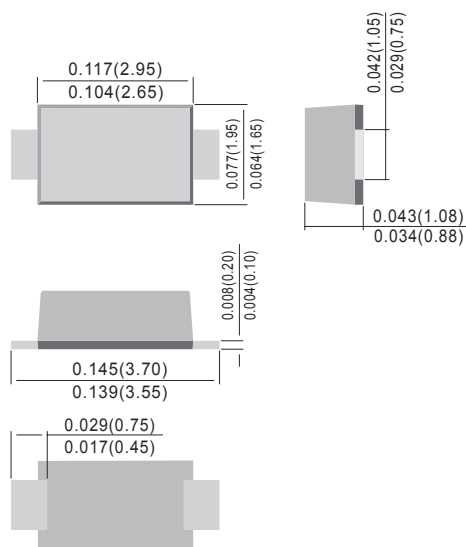
Mechanical Data

Case: SOD-123FL, Plastic

Terminals: Solderable per MIL-STD-202G, Method 208

Approx. Weight: 0.0168 gram

SOD-123FL



Dimensions in millimeters

Maximum Ratings and Electrical Characteristics

PARAMETER	SYMBOL	GS1000 FL	GS1001 FL	GS1002 FL	GS1004 FL	GS1006 FL	GS1008 FL	GS1010 FL	UNITS
Marking Code		1A	1B	1D	1G	1J	1K	1M	
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	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 (Note 1)	I_{AV}	1.0							A
Peak oneCycle Surge Forward Current (non-repetitive)	I_{FSM}	16.50 (60Hz)							A
Maximum Forward Voltage at 1.0A	V_F	1.1							V
Maximum DC Reverse Current $T_A=25^{\circ}C$ at Rated DC Blocking Voltage $T_A=125^{\circ}C$	I_R	10 50							mA
Typical Junction capacitance at 4V, MHz	C_J	4							Pf
Typical Thermal Resistance (Note 2)	$R_{\theta JA}$	65							$^{\circ}C/W$
Operating and Storage Temperature Range	T_J, T_{STG}	- 50 to + 150							$^{\circ}C$

NOTES:

- 1.1.Pulse test: 300u pulse width, 1% duty cycle.
- 2.Soldering land: 6mm x 6mm

[Http://www.upm.com.tw](http://www.upm.com.tw)

E-mail: upm.tw@msa.hinet.net



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Rating and Characteristic Curves

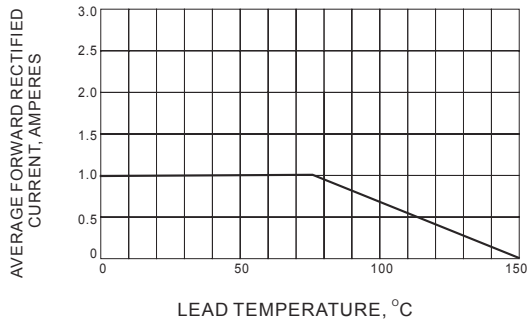


Fig.1 FORWARD CURRENT DERATING CURVE

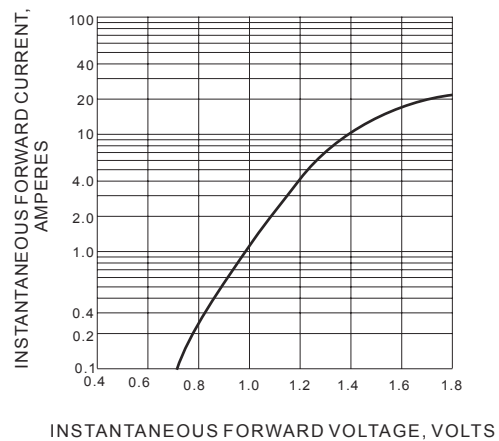


Fig.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

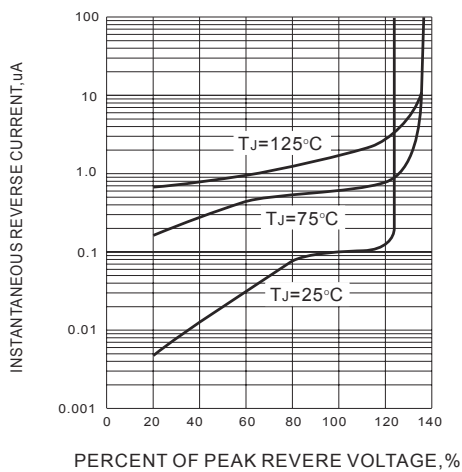


Fig.3 TYPICAL REVERSE CHARACTERISTICS

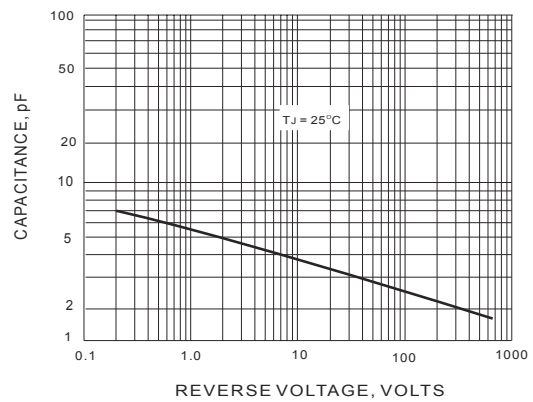


Fig.4 TYPICAL JUNCTION CAPACITANCE



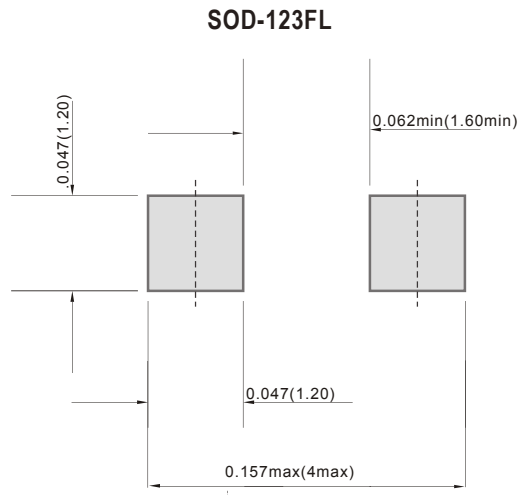
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Mounting Pad Layout



Dimensions in millimeters

Order Information

Packing information

T/R - 10K per 13" plastic Reel

T/R - 3.0K per 7" plastic Reel

Legal Statement

* Important Notice

This information is intended to unambiguously characterize the product in order to facilitate the customer's evaluation of the device in the application. The information will help the customer's technical experts determine that the device is compatible and interchangeable with similar devices made by other vendors. The information in this data sheet is believed to be reliable and accurate. The specifications and information herein are subject to change without notice. New products and improvements in products and product characterization are constantly in process. Therefore, the factory should be consulted for the most recent information and for any special characteristics not described or specified.

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