

General Standard Diodes

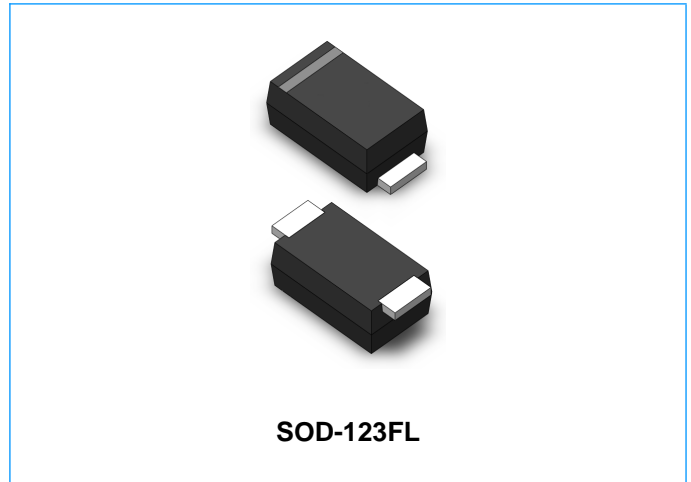
GS1000FL~GS1010FL
1A
50 to 1000V
SOD-123FL

Features

- u For surface mounted applications
- u Low profile package
- u Glass Passivated Chip Junction
- u Ideal for automated placement
- u Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

- u Case: SOD-123FL
- u Terminals: Solderable per MIL-STD-750, Method 2026
- u Approx. Weight:15mg 0.00048oz



Maximum Ratings and Electrical Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20%.

Parameter	Symbol	GS1000 FL	GS1001 FL	GS1002 FL	GS1004 FL	GS1006 FL	GS1008 FL	GS1010 FL	Unit	
Maximum Repetitive 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 Rectified Current at $T_a = 65^\circ\text{C}$	$I_{F(AV)}$	1							A	
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	30							A	
Maximum Instantaneous Forward Voltage at 1 A	V_F	1.1							V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	$T_a = 25^\circ\text{C}$								I_R	μA
	$T_a = 125^\circ\text{C}$									
Typical Junction Capacitance 1)	C_J	4							pF	
Typical Thermal Resistance 2)	$R_{\theta JA}$	60							$^\circ\text{C}/\text{W}$	
Operating and Storage Temperature Range	T_J, T_{STG}	-55 ~ +150							$^\circ\text{C}$	

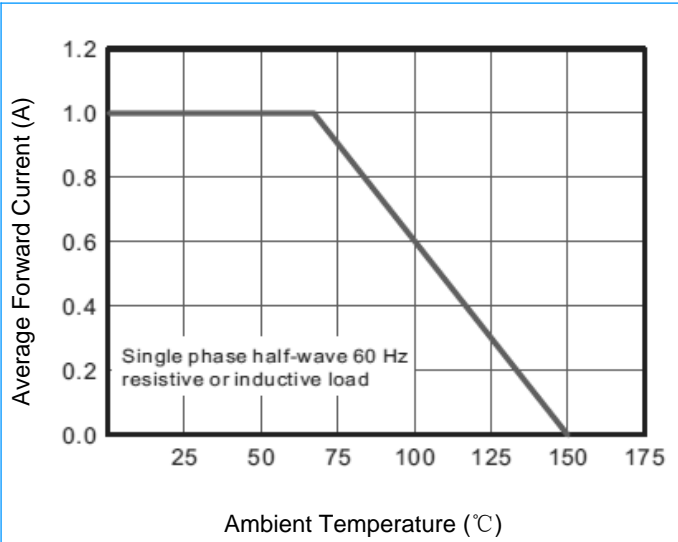
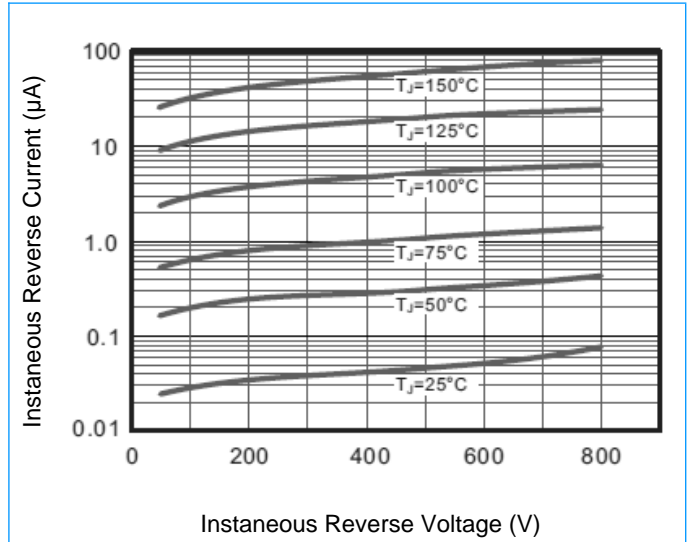
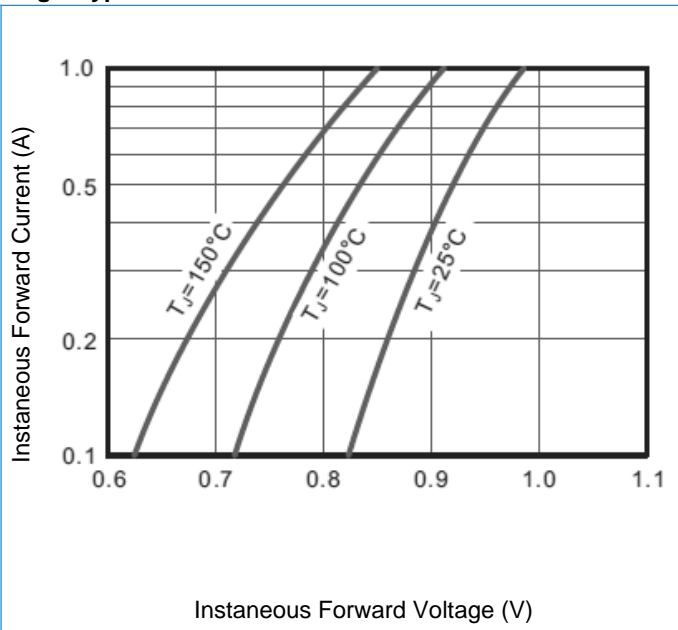
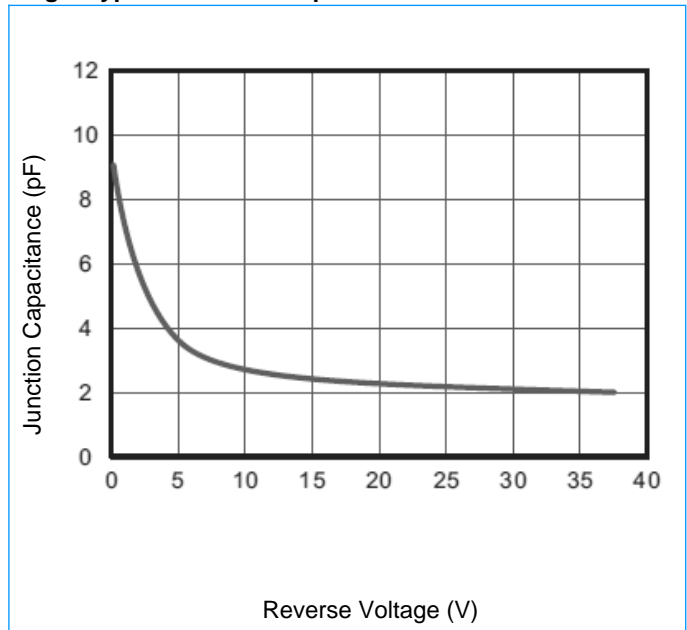
1) Measured at 1 MHz and applied reverse voltage of 4 V D.C.

2) Thermal resistance from junction to ambient at 0.375" (9.5 mm) lead length, P.C.B. mounted.

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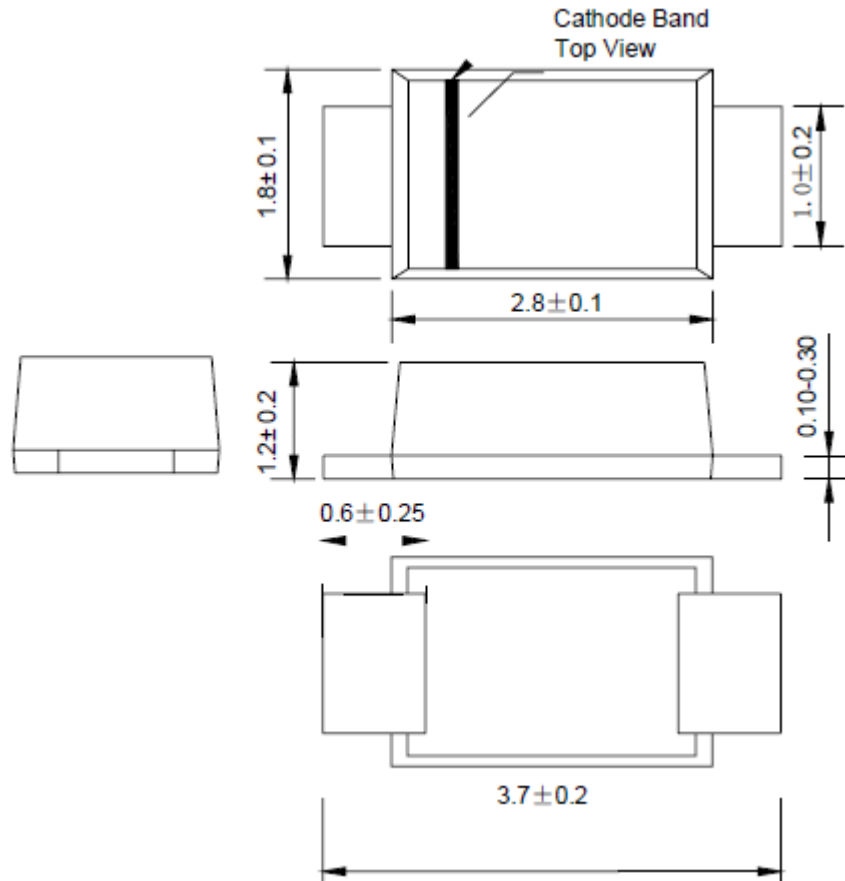
Characteristic Curves

Fig1. Forward Current Derating Curve

Fig2. Typical Instantaneous Reverse Characteristics

Fig3. Typical Forward Characteristics

Fig4. Typical Junction Capacitance


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SOD-123FL Package Outline


Dimensions in millimeters

Packaging Information

Part Number	Component Package	Quantity
GS1000FL~GS1010FL	SOD-123FL	3000 PCS/REEL