

Features

- Glass passivated device
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop, High Efficiency
- Surge Overload Rating to 25 A Peak
- Low Power Loss
- Ultra-Fast Recovery Time
- Plastic Case Material has UL Flammability
- Classification Rating 94V-O

Mechanical Data

Case: SOD-123FL, Molded Plastic

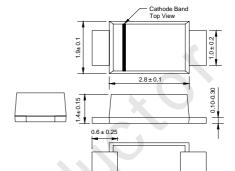
 Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026

Polarity: Cathode Band or Cathode Notch

Marking: Type Number

Weight: 0.01 grams (approx.)

Lead Free: For RoHS / Lead Free Version



SOD - 123FL

Dimensions in millimeters

Maximum Ratings and Electrical Characteristics @T_A=25°C unless otherwise specified

					,				
Characteristic	Symbol	FR101	FR102	FR103	FR104	FR105	FR106	FR107	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage	VR(RMS)	35	70	140	280	420	560	800	V
Average Rectified Output Current @T _L = 100°C	lo	1.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Ігѕм	25						А	
Forward Voltage @I _F = 1.0A	VFM	1.3							V
$ \begin{array}{lll} \mbox{Peak Reverse Current} & \mbox{@T_A} = 25^{\circ}\mbox{C} \\ \mbox{At Rated DC Blocking Voltage} & \mbox{@T_A} = 100^{\circ}\mbox{C} \\ \end{array} $	IRM	10 500							μΑ
Reverse Recovery Time (Note 2)	trr	150 250			5	000	nS		
Typical Junction Capacitance (Note 2)	Cj	4					pF		
Typical Thermal Resistance (Note 3)	R_{θ} JL	180						°C/W	
Operating and Storage Temperature Range	Tj, Tstg	-65 to +150						°C	

Note: 1. Measured with I_{F} = 0.5A, I_{R} = 1.0A, I_{rr} = 0.25A. See figure 5.

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm² land area.

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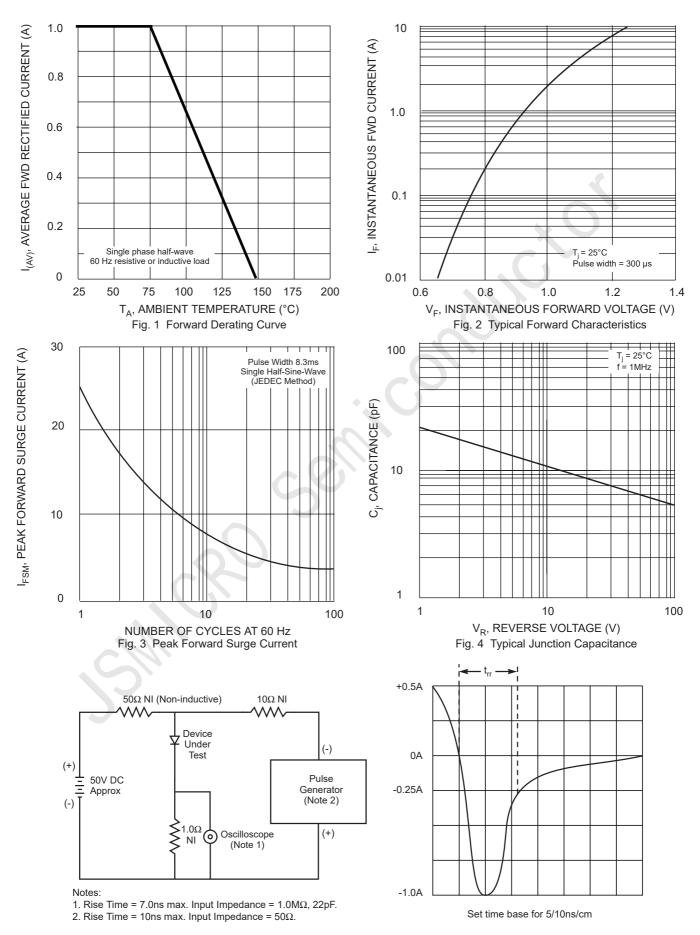


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit

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