Zibo Seno Electronic Engineering Co., Ltd.



A1 - A7





1.0A SURFACE MOUNT GLASS PASSIVATED DIODE

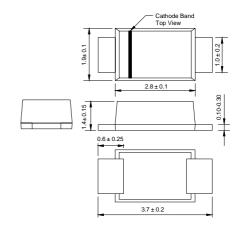
Features

- 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 @TA=25°C unless otherwise specified

Characteristic		Symbol	SOD 4001	SOD 4002	SOD 4003	SOD 4004	SOD 4005	SOD 4006	SOD 4007	UNITS
Device marking code			A 1	A2	А3	A 4	A5	A6	A7	
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)		IFSM	25							A
Forward Voltage	@I _F = 1.0A	VFM	1.3						V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 100°C	IRM	10 500				μA			
Typical Junction Capacitance (Note 2)		Cj	15							pF
Typical Thermal Resistance (Note 3)		R⊕JL	30							°C/W
Operating and Storage Temperature Range		Тj, Tsтg	-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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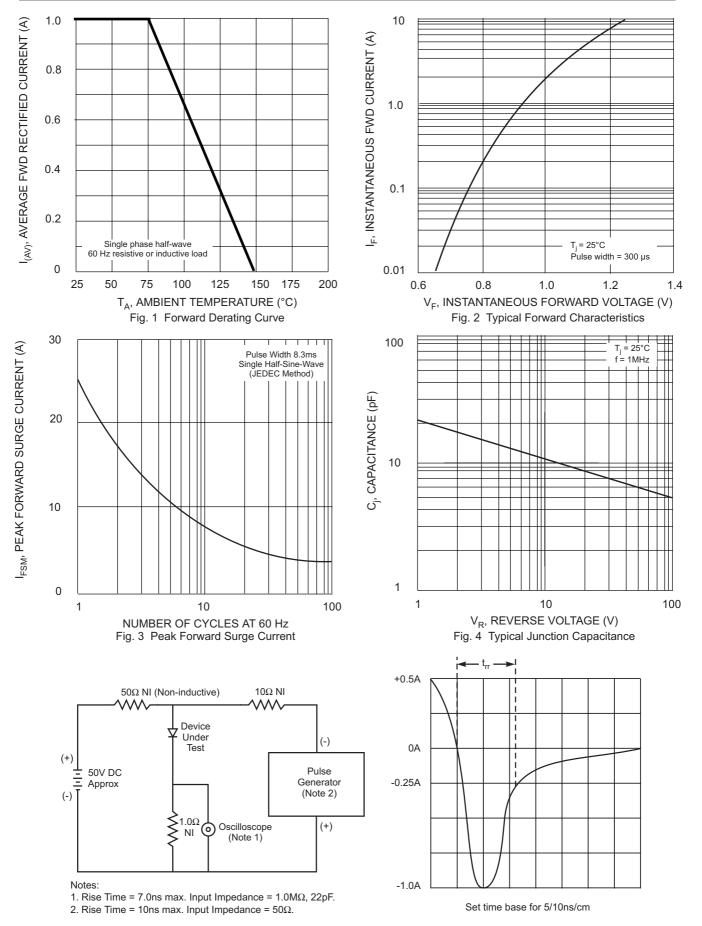


Fig. 5 Reverse Recovery Time Characteristic and Test Circuit