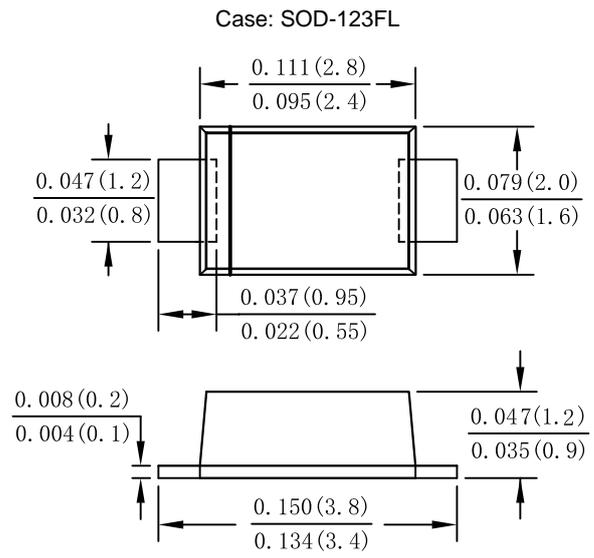


Features

- Glass passivated die construction
 - Ideal for surface mouted applications
 - Low reverse leakage
 - Metallurgically bonded construction
-
- Plastic material-UL flammability 94V-0
 - Halogen Free

Mechanical Data

- Case: SOD-123FL, molded plastic
- Terminals: plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Mounting position: Any



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single Phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOL	R1A	R1B	R1D	R1G	R1J	R1K	R1M	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current @ $T_L = 110^\circ C$	$I_{F(AV)}$	1.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave Superimposed On Rated Load (JEDEC Method) @ $T_j = 25^\circ C$	I_{FSM}	30							A
Forward Voltage @ $I_F = 1.0A$ @ $T_A = 25^\circ C$	V_{FM}	1.3							V
Peak Reverse Current @ $T_A = 25^\circ C$ At Rated DC Blocking Voltage @ $T_A = 125^\circ C$	I_R	5.0 100							μA
Maximum reverse recovery time (NOTE 1)	T_{rr}	150				250	500		ns
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							$^\circ C$

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1A$, $I_{rr} = 0.25A$.

Fig. 1 Typical Forward Current Derating Curve

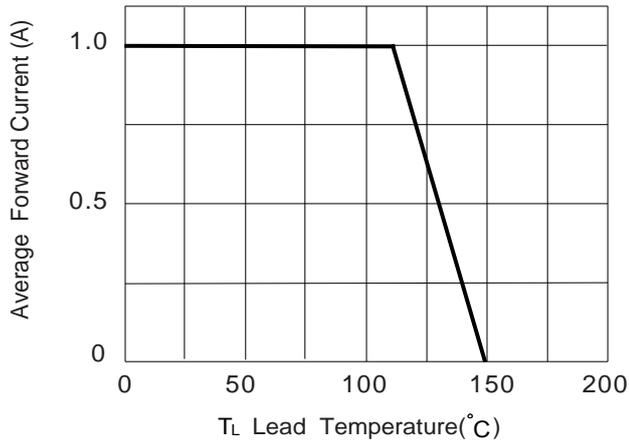


Fig. 2 Typical Instantaneous Forward Characteristics

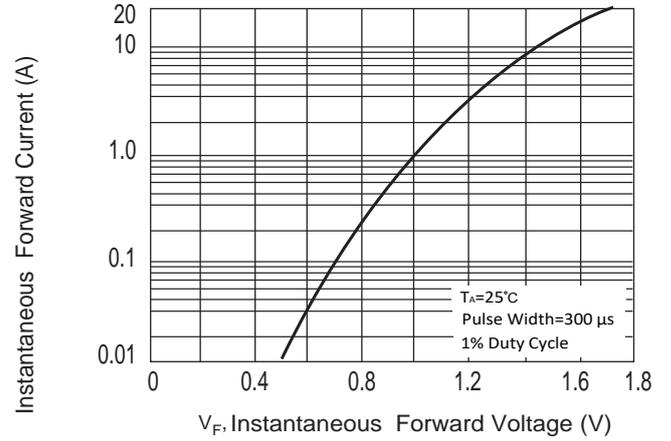


Fig. 3 Max Non-Repetitive Peak Fwd Surge Current

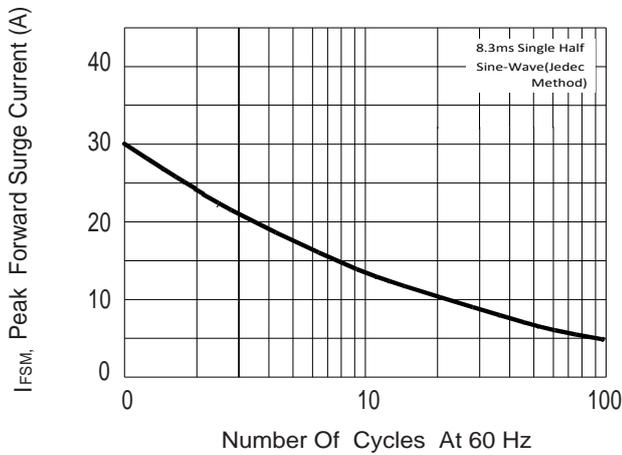


Fig.4 Typical Reverse Characteristics

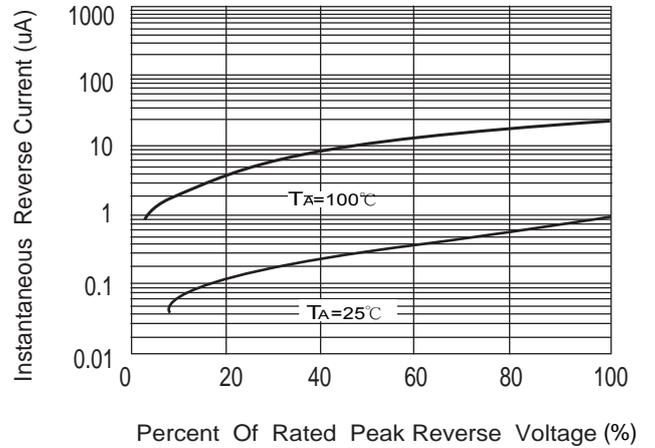


Fig.6 Typical Capacitance

