

Surface Mount Glass Passivated Rectifier

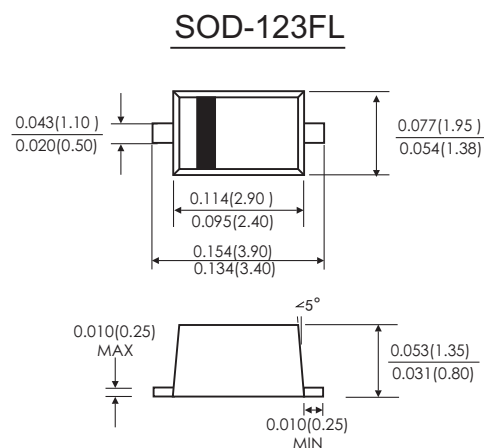
Features:

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
 - Construction utilizes void-free molded plastic technique
 - For surface mounted applications
 - Built-in strain relief, ideal for automated placement
 - High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHs 2011/65/EU

AEC-Q101 qualified and PPAP capable

Mechanical Data:

- Case: SOD-123FL molded plastic
- Terminals: Solder plated, 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

(Ratings at 25°C ambient temperature unless otherwise specified, Single phase, half wave 60Hz, resistive or inductive load. For capacitive load, derate by 20%.)

	Symbols	A1-V	A2-V	A3-V	A4-V	A5-V	A6-V	A7-V	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current	$I(AV)$	1.0							Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)	I_{FSM}	30.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A	V_F	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	I_R	$T_A=25^\circ C$							μA
		$T_A=125^\circ C$							
Typical Thermal resistance (Note 2)	$R_{\theta JA}$	170							$^\circ C/W$
Typical Junction Capacitance (Note 1)	C_J	12							pF
Operating and Storage temperature Range	T_J T_{STG}	-55 to +150							$^\circ C$

Note: 1. Measured at 1MHz and applied reverse voltage of 4.0V DC.
 2. Thermal resistance from junction to ambient

RATINGS AND CHARACTERISTIC CURVES A1 THRU A7

FIG.1-FORWARD CURRENT DERATING CURVE

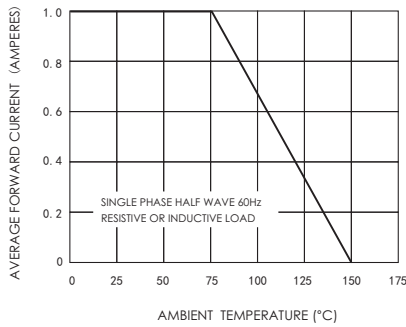


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

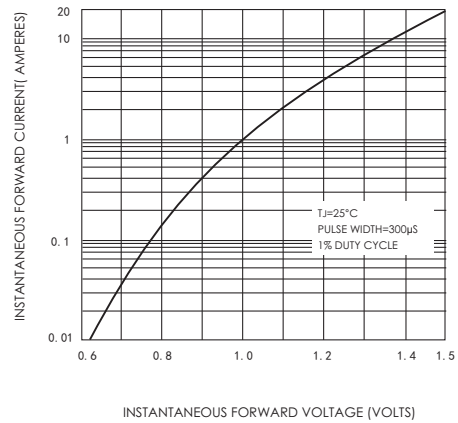


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

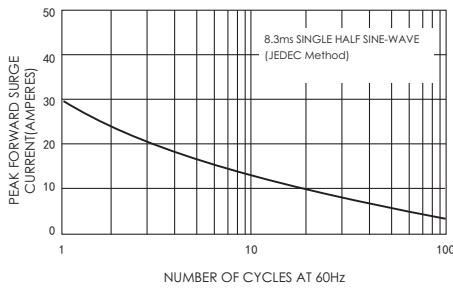


FIG.4-TYPICAL REVERSE CHARACTERISTICS

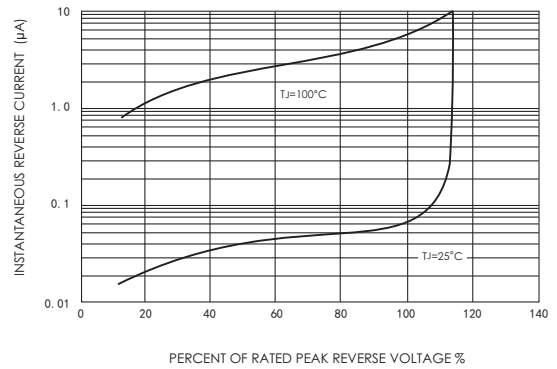


FIG.5-TYPICAL JUNCTION CAPACITANCE

