

Surface Mount Glass Passivated Rectifier

FEATURES

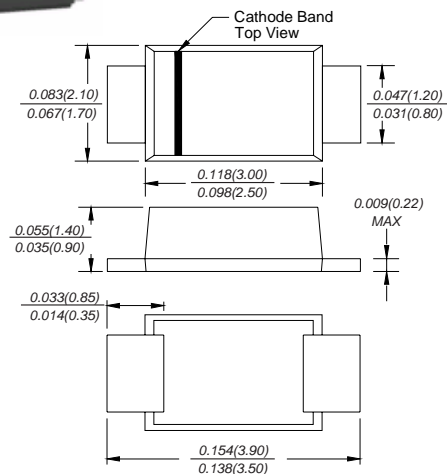
- ◆ Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- ◆ Construction utilizes void-free molded plastic technique
- ◆ For surface mounted applications
- ◆ Built-in strain relief, ideal for automated placement
- ◆ High temperature soldering guaranteed:260 °C/10 seconds at terminals Component in accordance to RoHs 2002/95/EC and WEEE 2002/96/EC

MECHANICAL DATA

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



SOD-123FL



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	A1B	A2B	A3B	A4B	A5B	A6B	A7B	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm) lead length at TA=75°C		I(AV)	1.5							Amp
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method) TA=75°C		IFSM	45.0							Amps
Maximum Instantaneous Forward Voltage at 1.0 A		VF	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA =25 °C	IR	5.0							u A
	TA =125 °C		50.0							
Typical Thermal resistance (Note 2)		RG JL	30							°C/W
Typical Junction Capacitance(Note 1)		CJ	20							pF
Operating and Storage temperature Range		TJ TSTG	-65 to+175							°C

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

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

RATINGS AND CHARACTERISTIC CURVES A1B THRU A7B

FIG.1-FORWARD CURRENT DERATING CURVE

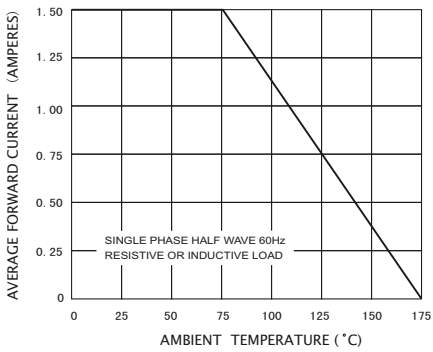


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

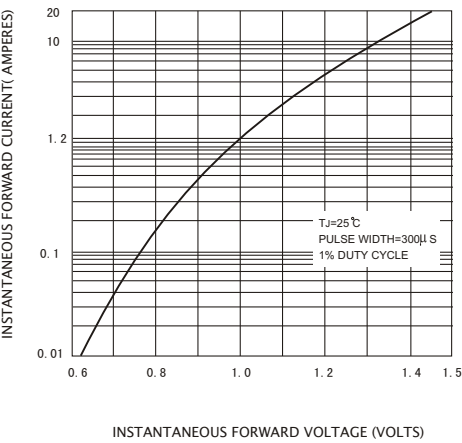


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

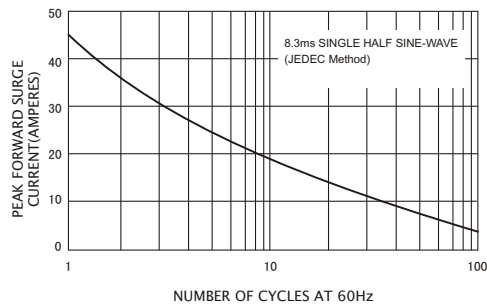


FIG.4-TYPICAL REVERSE CHARACTERISTICS

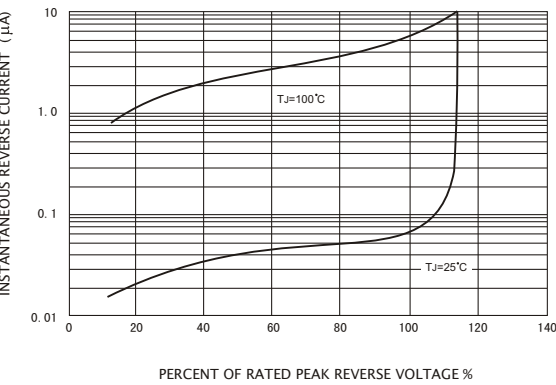
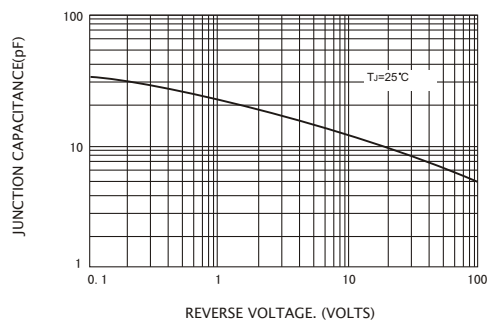
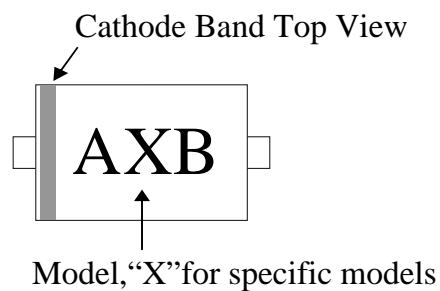


FIG.5-TYPICAL JUNCTION CAPACITANCE





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