



AX SERIES

SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

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SURFACE MOUNT GLASS PASSIVATED JUNCTION RECTIFIER

REVERSE VOLTAGE: 50 to 1000 VOLTS
FORWARD CURRENT: 1.0 AMPERE

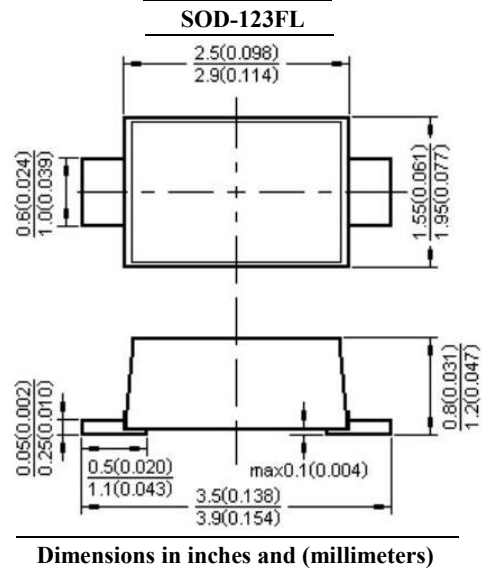


FEATURES

- For surface mounted applications
- Low profile package
- High current capacity
- Built-in strain relief
- Metal to silicon rectifier, majority carrier conduction
- High surge capacity
- Low power loss, high efficiency\
- For use in low voltage high frequency inverters, free wheeling, and polarity protection applications
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- High temperature soldering : 260°C /10 seconds at terminals

MECHANICAL DATA

Case: Molded plastic, SOD-123FL
 Terminals: Pure tin plated, lead free
 Polarity: Indicated by cathode band
 Packaging: 8mm tape per EIA STD RS-481
 Weight: 0.022 gram



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 current by 20%.

	Symbols	A1	A2	A3	A4	A5	A6	A7	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 At T _L (See Fig. 1)	I _(AV)	1.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I _{FSM}	30							Amp
Maximum Forward Voltage at 1.0A	V _F	1.1							Volts
Maximum Reverse Current at T _A =25°C at Rated DC Blocking Voltage T _A =125°C	I _R	5.0 100							μAmp
Typical Junction Capacitance (Note 1)	C _J	12							pF
Typical Thermal Resistance (Note 2)	R _{θJA} R _{θJL}	75 27					85 30		°C/W
Maximum Reverse Recovery Time (Note 3)	T _{RR}	2.5							μS
Operating Junction Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{stg}	-55 to +150							°C

NOTES:

- 1- Measured at 1 MHz and applied reverse voltage of 4.0 VDC.
- 2- Thermal resistance from junction to ambient mounted on P.C.B. with 0.2 x 0.2" (5.0 x 5.0mm) copper pad areas
- 3- Reverse Recovery Test Conditions: I_F=5A, I_R=1A, I_{RR}=.25A.

RATINGS AND CHARACTERISTIC CURVES

FIG.1- MAXIMUM FORWARD CURRENT DERATING CURVE

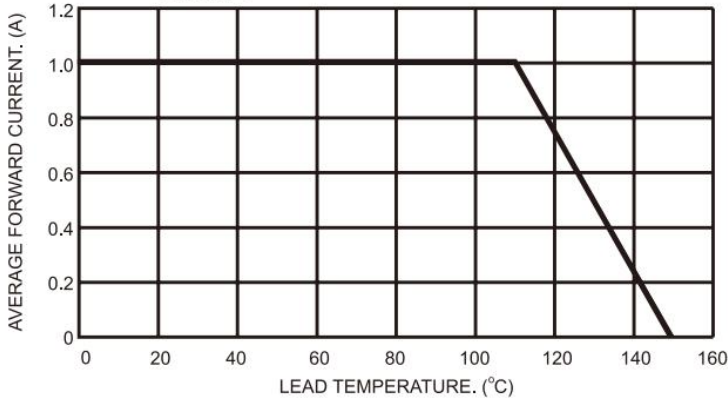


FIG.2- TYPICAL REVERSE CHARACTERISTICS

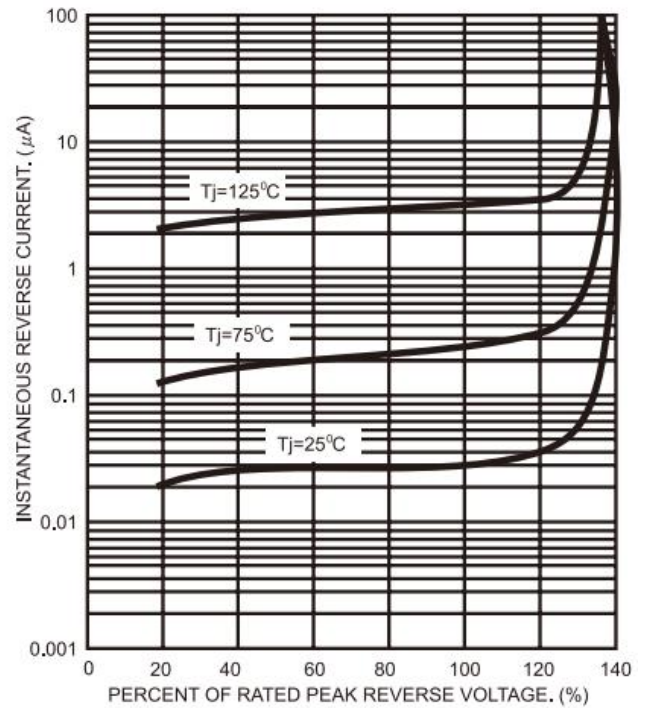


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

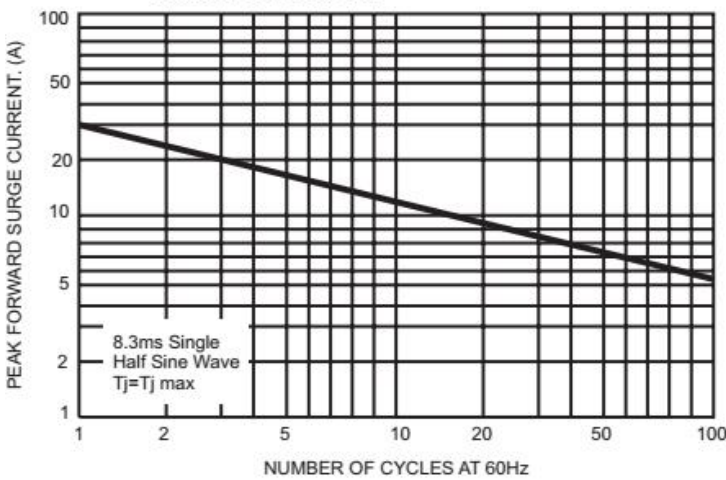


FIG.5- TYPICAL FORWARD CHARACTERISTICS

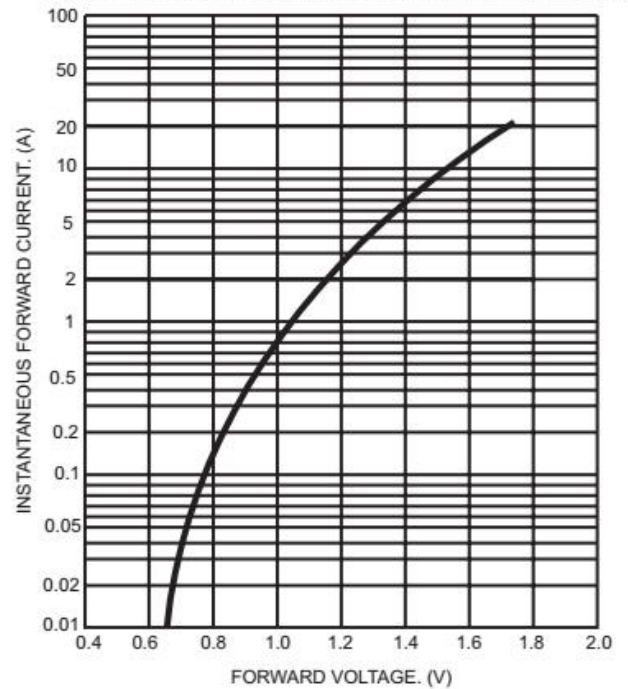


FIG.4- TYPICAL JUNCTION CAPACITANCE

