

A1 THRU A7

SINGLE PHASE 1.0AMP SURFACE MOUNT GLASS PASSIVATED RECTIFIER

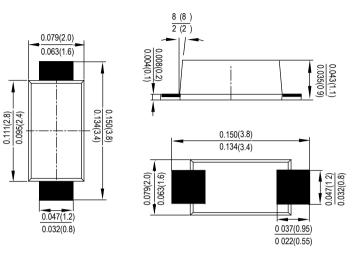
Features

- Glass passivated die construction
- · Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- High temperature soldering guaranteed: 260 ^oC /10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension
- Plastic material-UL flammability 94V-0

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

SOD-123FL



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25 ℃ ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%.

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TYPE NUMBER	SYMBOL	A1	A2	A3	A4	A5	A6	A7	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	VRRM								
	VRWM	50	100	200	400	600	800	1000	V
	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current @TL =90°C	I F(AV)	1.0							А
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	lfsm	30							А
2t Rating for Fusing (t < 8.3ms)	l²t	3.735							A ² s
Forward Voltage per element @IF=1.0A	Vғм	1.0							V
Peak Reverse Current @Ta =25°C At Rated DC Blocking Voltage @Ta =125°C	lr	5.0 100							uA
Typical thermal resistance (NOTE 1)	Reja	180							°C/W
Typical junction capacitance (NOTE 2)	Сл	4							pF
Operating and Storage Temperature Range	ТЈ,Тѕтс	-55to+150							$^{\circ}$

Note:1.Thermal resistance from junction to ambient at 0.375" (9.5mm)lead length, P.C.B. mounted

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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INSTANTANEOUS FORWARD CURRENT, (A)

FIG. 1- FORWARD CURRENT DERATING CURVE

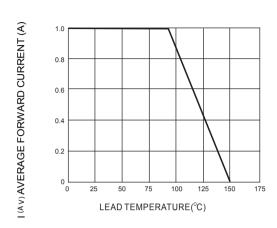
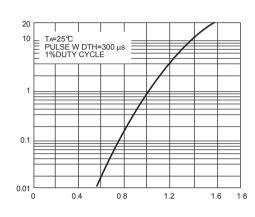


FIG. 2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



V_E, INSTANTANEOUS FORWARD VOLTAGE (V)

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

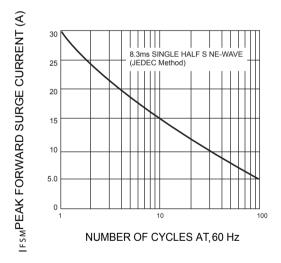


FIG. 4-TYPICAL JUNCTION CAPACITANCE

