# **SODR1A THRU SODR1M**



# SODR1A THRU SODR1M 1.0Amp Fast Recovery Surface Mounted Rectifiers

#### **General description**

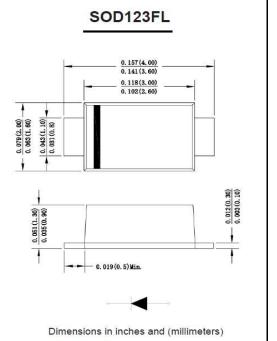
1.0Amp Fast Recovery Surface Mounted Rectifiers

#### **FEATURES**

- For surface mounted applications
- The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- · Idea for printed circuit board
- · Glass passivated Junction chip
- Low reverse leakage
- · High forward surge current capability
- High temperature soldering guaranteed
- 250 C/10 seconds at terminals

#### **MECHANICAL DATA**

- Case: Molded plastic body
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
  - Polarity: Polarity symbol marking on body
- Mounting Position: Any
- Weight: 0.0007 ounce, 0.02 grams



## Absolute Maximum Ratings(Ta=25°C unless otherwise specified)

Single phase half-wave 60 Hz, resistive or inductive load, for capacitive load current derate by 20 %.

SYMBOLS	SOD R1A	SOD R1B	SOD R1D	SOD R1G	SOD R1J	SOD R1J	SOD R1M	UNITS
Vrrm	50	100	200	400	600	800	1000	V
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
l(AV)	1.0							А
lfsm	35							А
VF	1.3						V	
lR	5.0 500							uA
Trr	150 250 500				00	ns		
Cì	9.0						pF	
RqJA	85.0						.C/W	
ТЈ,Тѕтс	-55 to +150							。C
	VRRM VRMS VDC I(AV) IFSM VF IR CJ RqJA	VRRM 50 VRMS 35 VDC 50 I(AV) IFSM VF IR Trr CJ RqJA	R1A   R1B   VRRM   50   100   VRMS   35   70   VDC   50   100   I(AV)   IFSM   VF   IR   Trr   15   CJ   RqJA   R1A   R1B   R1B	R1A   R1B   R1D	R1A   R1B   R1D   R1G     VRM   50   100   200   400     VRMS   35   70   140   280     VDC   50   100   200   400     I(AV)   1.0     IFSM	R1A   R1B   R1D   R1G   R1J     VRRM   50   100   200   400   600     VRMS   35   70   140   280   420     VDC   50   100   200   400   600     I(AV)   1.0     IFSM	R1A   R1B   R1D   R1G   R1J   R1J	R1A   R1B   R1D   R1G   R1J   R1J   R1M

NOTES: 1. Reverse Recovery Test Conditions: IF=0.5A, IR=1.0A, Irr=0.25A

2. Measured at 1 MHz and applied Vr = 4.0 volts.

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## **Ratings And Characteristic Curves**

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

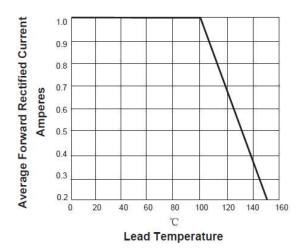


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

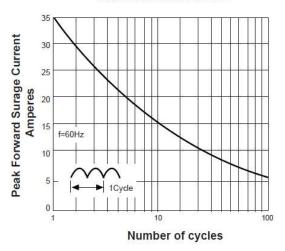


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

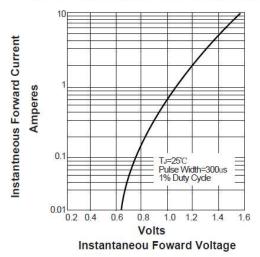
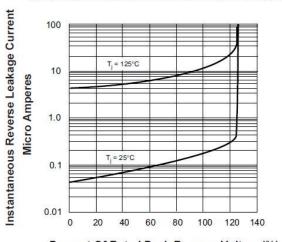
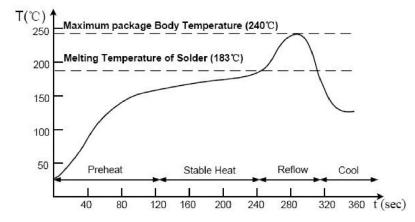


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS



Percent Of Rated Peak Reverse Voltage(%)

### **Suggested Soldering Temperature Profile**



#### Note

- Recommended reflow methods: IR, vapor phase oven, hot air oven, wave solder.
- → The device can be exposed to a maximum temperature of 265°C for 10 seconds.
- → Devices can be cleaned using standard industry methods and solvents.
- If reflow temperatures exceed the recommended profile, devices may not meet the performance requirements.

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