



# Product data sheet

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# **FEATURES**

- \* Ideal for surface mount applications
- \* Easy pick and place
- \* Built-in strain relief
- \* High surge current capability

# **MECHANICAL DATA**

- \* Case: Molded plastic
- \* Epoxy: UL 94V-0 rate flame retardant
- \* Terminals: Solder plated, solderable per MIL-STD-202F, method 208 guranteed
- \* Polarity: Color band denotes cathode end
- \* Mounting position: Any

SOD-123FL

# MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating 25°C ambient temperature uniess otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	P/N	DSR1A S1A	DSR1B S1B	DSR1D S1D	DSR1G S1G	DSR1J S1J	DSR1K S1K	DSR1M S1M	UNITS
	MARK	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at T⊾ =100°C (NOTE 1)	l(AV)				1.0				А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load	IFSM	25.0					A		
Maximum instantaneous forward voltage at 1.0A	Vf				1.1				V
Maximum DC reverse current Ta=25 C at rated DC blocking voltage Ta=125 C	lĸ	10.0 50.0			μA				
Typical junction capacitance (NOTE 2)	Сл	4		pF					
Typical thermal resistance (NOTE 3)	Reja				95				°C/W
Operating junction and storage temperature range	Tj,Tstg				-55 to +1	50			С

#### NOTES:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.

2. Thermal Resistance from Junction to Ambient.





FIG.1-TYPICAL FORWARD

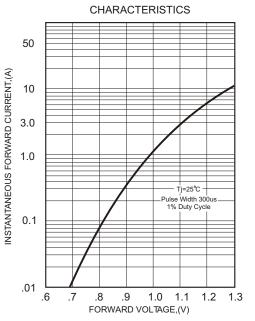


FIG.3 - TYPICAL REVERSE **CHARACTERISTICS** 100 10 Tj=100°C 1.0

REVERSE LEAKAGE CURRENT, (µA)

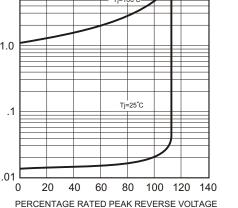
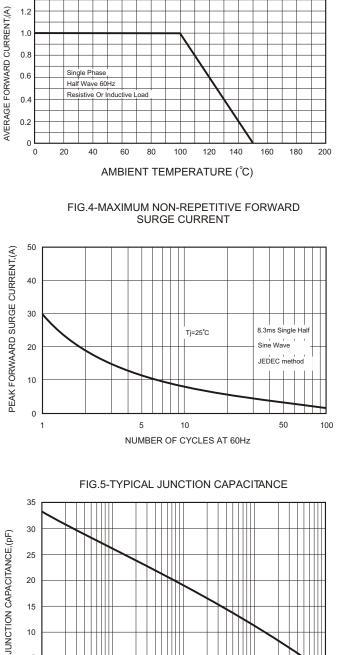
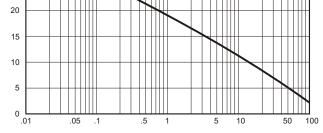


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE





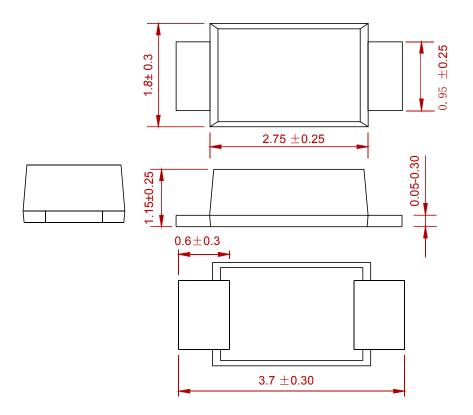
REVERSE VOLTAGE,(V)





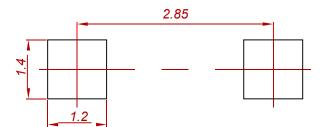
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### PACKAGE MECHANICAL DATA



Dimensions in millimeters

## Suggested Pad Layout



#### Note:

1.Controlling dimension:in millimeters.

- 2.General tolerance:±0.05mm.
- 3. The pad layout is for reference purposes only.

#### **REEL SPECIFICATION**

P/N	PKG	QTY
DSR1A TRHU DSR1M	SOD-123FL	3000



DSR1A TRHU DSR1M HE

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