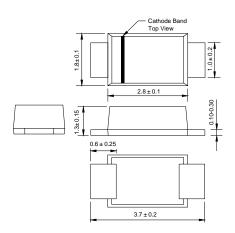


DSR0.3A THRU DSR0.3M

Surface Mount Standard Rectifiers

Reverse Voltage - 50 to 1000 Volts Forward Current - 0.3 Ampere

SOD-123FL



Dimensions in millimeters

Features

- Low profile space
- Ideal for automated placement
- Glass passivated chip junctions
- Low forward voltage drop
- Low leakage current
- High forward surge capability
- High temperature soldering:
 260 °C/10 seconds at terminals
- ◆ Component in accordance to RoHS 2002/95/1 and WEEE 2002/96/EC

Mechanical Date

Case: JEDEC SOD-123FL molded plastic

body over glass passivated chip

Terminals: Solder plated, solderable per

J-STD-002B and JESD22-B102D

Polarity: Laser band denotes cathode end

Weight: 0.017gram

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 current derate by 20%.

	SYMBOLS	S03A	S03B	S03D	S03G	S03J	S03K	S03M	UNITS
Maximum repetitive 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 at Ta=65°C (NOTE 1)	l(AV)	0.3							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	lfsm	15.0							Amps
Maximum instantaneous forward voltage at 0.3A	VF	1.1							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=100℃	lR	5.0 50.0							μΑ
Typical junction capacitance (NOTE 2)	C¹	4							pF
Typical thermal resistance (NOTE 3)	Reja	220							K/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note1: Mounted on FR-4 P.C.B. With 0.9x1.5 mm copper pad areas (≈35 µm thick)

RATINGS AND CHARACTERISTIC CURVES DSR0.3A THRU DSR0.3M

Characteristic Curves (T_A=25 ℃ unless otherwise noted)

Fig.1 Forward Current Derating Curve 0.30) Average Forward Current (A) 0.250.20 0.15 0.10 single phase half wave 60Hz resistive or inductive load 0.05 0.00 25 50 75 100 125 150 Ambient Temperature (°C)

Fig.2 Maximum Non-Repetitive Peak
Forward Surge Current

35

8.3mS single half sine-wave (JEDEC Method)

25

10

10

Number of Cycles

Fig.3 Typical Instantaneous Forward Characteristics

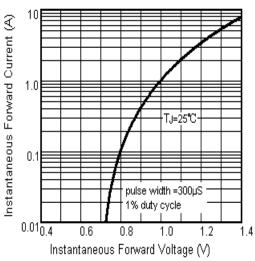
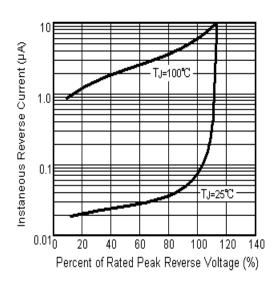


Fig.4 Typical Reverse Characteristics



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