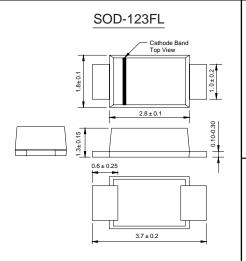


SOD4001 THRU SOD4007

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere



FEATURES

- Glass passivated device
- Ideal for surface mouted applications
- Low reverse leakage
- Metallurgically bonded construction
- → High temperature soldering guaranteed: 250°C/10 seconds,0.375"(9.5mm) lead length, 5 lbs. (2.3kg) tension

MECHANICAL DATA

Case: JEDEC SOD-123FL molded plastic body over passivated chip

Terminals: Solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0007 ounce, 0.02 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

Dimensions in millimeters

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

	SYMBOLS	4001	4002	4003	4004	4005	4006	4007	UNITS
MDD Catalog Number		D1	D2	D3	D4	D5	D6	D7	00
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)	1.0							Amp
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	Ігѕм	25.0							Amps
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25℃ at rated DC blocking voltage Ta=125℃	lr	10.0 50.0							μА
Typical junction capacitance (NOTE 2)	Сı	4							pF
Typical thermal resistance (NOTE 3)	Reja	180							K/W
Operating junction and storage temperature range	ТЈ,Тѕтс	-55 to +150							°C

Note: 1. Averaged over any 20ms period.

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

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

2014-03 01版

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RATINGS AND CHARACTERISTIC CURVES SOD4001 THRU SOD4007

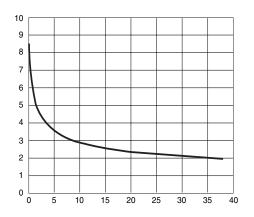
FIG.1 - TYPICAL FORWARD CHARACTERISTIC

INSTANTANEOUS FORWARD VOLTAGE, mV

FIG.2 - TYPICAL JUNCTION CAPACITANCE

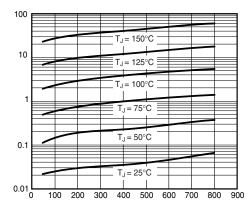


AVERAGE FORWARD CURRENT,



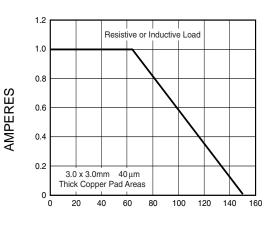
REVERSE VOLTAGE, VOLTS

FIG.3 – TYPICAL INSTANTANEOUS REVERSE CHARACTERISTICS



INSTANTANEOUS REVERSE VOLTAGE,V

FIG.4 - FORWARD DERATING CURVE



AMBIENT TEMPERATURE, ℃

INSTANTANEOUS REVERSE CURRENT

μ AMPERES

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