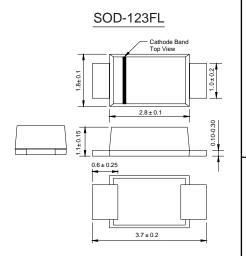


S2AW THRU S2MW

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 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	S2AW	S2BW	S2DW	S2GW	S2JW	S2KW	S2MW	UNITS
MDD Catalog Number		2D1	2D2	2D3	2D4	2D5	2D6	2D7	
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)	2.0							Amp
Peak forward surge current									
8.3ms single half sine-wave superimposed on rated load (JEDEC Method) TL=25°C	I _{FSM} 50							Amps	
Maximum instantaneous forward voltage at 2.0A	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)	Cı	30							pF
Typical thermal resistance (NOTE 3)	Reja	90							°C/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



RATINGS AND CHARACTERISTIC CURVES S2AW THRU S2MW

Fig.1 Forward Current Derating Curve

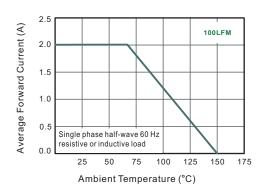


Fig.2 Typical Instaneous Reverse Characteristics

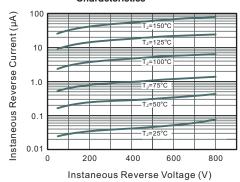


Fig.3 Typical Forward Characteristic

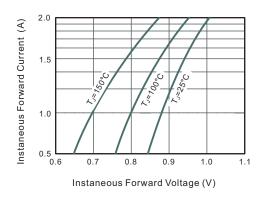


Fig.4 Typical Junction Capacitance

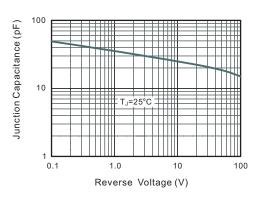
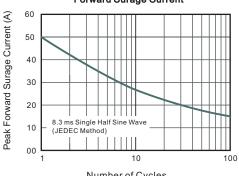


Fig.6 Maximum Non-Repetitive Peak Forward Surage Current



Number of Cycles



The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!