S2A THRU S2M

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 2.0 Ampere

FEATURES

◆For surface mounted applications

◆Low profile package

◆Glass Passivated Chip Junction

◆Easy to pick and place

◆Lead free in comply with EU RoHS 2011/65/EU directives

Mechanical Data

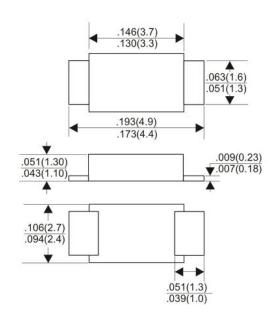
◆Case: SMAF

◆ Terminals: Solderable per MIL-STD-750,

Method 2026

◆Approx. Weight: 27mg 0.00095oz

SMAF



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

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

PARAMETER		SYMBOL	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Repetitive Peak Reverse Voltage		V _{RRM}	50	100	200	400	600	800	1000	VOLTS
Maximum RMS Voltage		V _{RMS}	35	70	140	280	420	560	700	VOLTS
Maximum DC Blocking Voltage		V _{DC}	50	100	200	400	600	800	1000	VOLTS
Maximum Average Forward Rectified Current At T_A =65°C		I _(AV)	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)		I _{FSM}	55							Amps
Maximum instantaneous forward voltage per at 2.0A		V_{F}	1.1						VOLTS	
Maximum DC Reverse Current at Rated DC blocking voltage	T _A =25℃	I _R	5.0							- uA
	T _A =125°C		100							
Typical Junction Capacitance (Measured at 1.0MHz and applied reverse voltage of 4.0V)		Сл	30							pF
Typical Thermal Resistance		RөJA	85							°C∕W
Operating Junction Temperature		TJ	-55 to +150							$^{\circ}$
Storage Temperature Rang		Тѕтс	-55 to +150							$^{\circ}$

Note: 1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.2 \times 0.2''$ (5.0×5.0mm) copper pad areas.

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RATING AND CHARACTERISTIC CURVES S2A THRU S2M

Fig.1 Forward Current Derating Curve

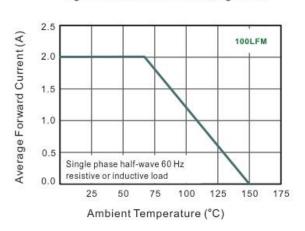


Fig.2 Typical Instaneous Reverse Characteristics

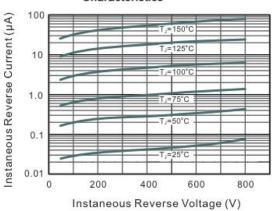


Fig.3 Typical Forward Characteristic

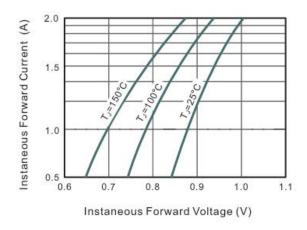


Fig.4 Typical Junction Capacitance

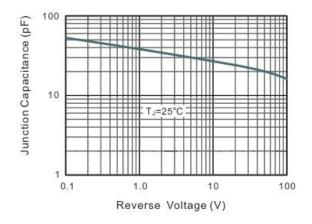
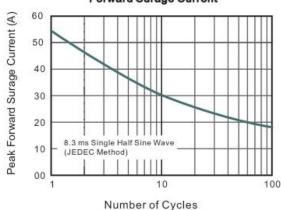


Fig.6 Maximum Non-Repetitive Peak **Forward Surage Current**



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.