

WUXI XUYANG ELECTRONICS CO., LTD.

S1A THRU S1M

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 1.0A

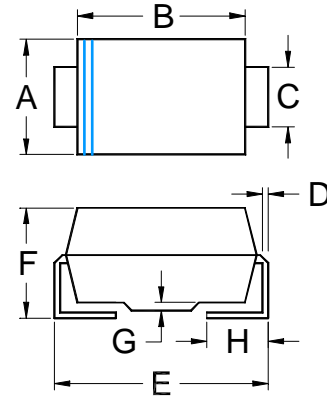
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- High temperature soldering guaranteed: 260°C/10sec/at terminal

MECHANICAL DATA

- Terminal: Plated leads solderable per MIL-STD 202E, method 208C
- Case: Molded with UL-94 Class V-O recognized flame retardant epoxy
- Polarity: Color band denotes cathode

SMA/DO-214AC



	A	B	C	D
MAX.	.112(2.84)	.177(4.50)	.059(1.50)	.012(0.305)
MIN.	.100(2.54)	.157(3.99)	.052(1.32)	.006(0.152)
	E	F	G	H
MAX.	.218(5.54)	.090(2.29)	.008(0.203)	.060(1.52)
MIN.	.194(4.93)	.078(1.98)	.004(0.102)	.030(0.76)

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60Hz, resistive or inductive load rating at 25°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	S1A	S1B	S1D	S1G	S1J	S1K	S1M	UNITS
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current ($T_L=100^\circ\text{C}$)	$I_{F(AV)}$	1.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	30							A
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.1							V
Maximum DC Reverse Current ($T_a=25^\circ\text{C}$ at rated DC blocking voltage) ($T_a=125^\circ\text{C}$)	I_R	5.0 200							μA μA
Typical Junction Capacitance (Note 1)	C_J	15							pF
Typical Thermal Resistance (Note 2)	$R_\theta(ja)$	30							$^\circ\text{C}/\text{W}$
Storage and Operation Junction Temperature	T_{STG}, T_J	-65 to +150							$^\circ\text{C}$

Note:

1. Measured at 1.0 MHz and applied voltage of $4.0V_{dc}$
2. Thermal resistance from junction to terminal mounted on 5x5mm copper pad area

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