SHANGHAI SUNRISE ELECTRONICS CO., LTD.

S2AA THRU S2MA

SURFACE MOUNT GLASS PASSIVATED RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 2.0A

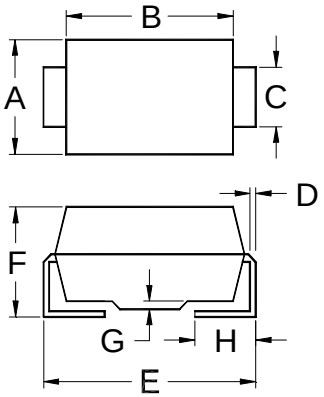
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- High temperature soldering guaranteed: 260^{o}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.	.110(2.79)	.177(4.50)	.058(1.47)	.012(0.305)
MIN.	.100(2.54)	.157(3.99)	.052(1.32)	.006(0.152)
	E	F	G	H
MAX.	.208(5.28)	.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^{o}C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	S2AA	S2BA	S2DA	S2GA	S2JA	S2KA	S2MA	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=110^{o}C)	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	60							A
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.1							V
Maximum DC Reverse Current T_a=25^{o}C	I_R	5.0							μA
(at rated DC blocking voltage) T_a=125^{o}C		200							μA
Typical Junction Capacitance (Note 1)	C_J	30							pF
Typical Thermal Resistance (Note 2)	R_{θ}(ja)	16							^{o}C/W
Storage and Operation Junction Temperature	T_{STG},T_J	-65 to +150							^{o}C

Note:

1.Measured at 1.0 MHz and applied voltage of 4.0V_{dc}

2.Thermal resistance from junction to terminal mounted on 5×5mm copper pad area