SHANGHAI SUNRISE ELECTRONICS CO., LTD.

RS2AA THRU RS2MA

SURFACE MOUNT FAST SWITCHING RECTIFIER

TECHNICAL SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 2.0A

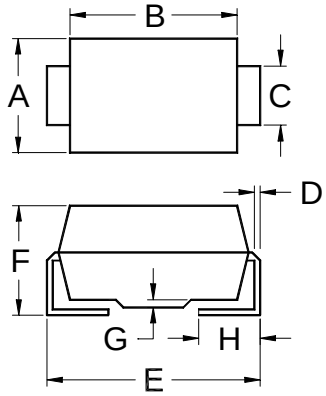
FEATURES

- Ideal for surface mount pick and place application
- Low profile package
- Built-in strain relief
- High surge capability
- Glass passivated chip
- Fast recovery for high efficiency
- 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.	.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°C, unless otherwise stated, for capacitive load, derate current by 20%)

RATINGS	SYMBOL	RS2 AA	RS2 BA	RS2 DA	RS2 GA	RS2 JA	RS2 KA	RS2 MA	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°C)	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.3							V
Maximum DC Reverse Current T_a=25°C	I_R	5.0							μA
(at rated DC blocking voltage) T_a=125°C		200							μA
Maximum Reverse Recovery Time (Note 1)	trr	150				250	500		nS
Typical Junction Capacitance (Note 2)	C_J	30							pF
Typical Thermal Resistance (Note 3)	R_θ(ja)	16							°C/W
Storage and Operation Junction Temperature	T_{STG},T_J	-50 to +150							°C

Note:

1.Reverse recovery condition I_F=0.5A, I_R=1.0A,Irr=0.25A.

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

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