

S2A~S2M

SURFACE MOUNT RECTIFIER

VOLTAGE 50 to 1000 Volts CURRENT 2.0 Amperes

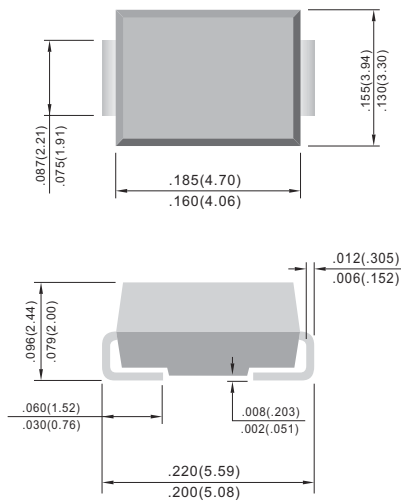


SMB/DO-214AA

Unit: inch (mm)

FEATURES

- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Glass passivated junction
- Both normal and Pb free product are available :
 Normal : 80~95% Sn, 5~20% Pb
 Pb free: 98.5% Sn above



MECHANICAL DATA

Case: JEDEC DO-214AA molded plastic
 Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
 Polarity: Indicated by cathode band
 Standard packaging: 12mm tape (EIA-481)

NIT

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings 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	S 2 A	S 2 B	S 2 D	S 2 G	S 2 J	S 2 K	S 2 M	UNITS
Maximum Recurrent 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 Current at $T_L=100\text{ }^\circ\text{C}$	$I_{F(AV)}$	2.0							A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I_{FSM}	60							A
Maximum Forward Voltage at 2.0A	V_F	1.1							V
Maximum DC Reverse Current at $T_J=25\text{ }^\circ\text{C}$ Rated DC Blocking Voltage $T_J=125\text{ }^\circ\text{C}$	I_R	5.0 125							μA
Typical Junction capacitance (Note 1)	C_J	30							pF
Typical Junction Resistance(Note 2)	$R_{\theta JL}^J$	16							$^\circ\text{C} / \text{W}$
Operating and Storage Temperature Range	T_J, T_{STG}	-55 TO +150							$^\circ\text{C}$

NOTES:

1. Measured at 1.0 MHZ and applied $V_r=4.0$ volts.
2. $8.0\text{mm}^2(.013\text{mm thick})$ land areas.

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RATING AND CHARACTERISTIC CURVES

