S2A THRU S2M

SURFACE MOUNT SILICON RECTIFIER

VOLTAGE：50-1000V **CURRENT：2.0A**

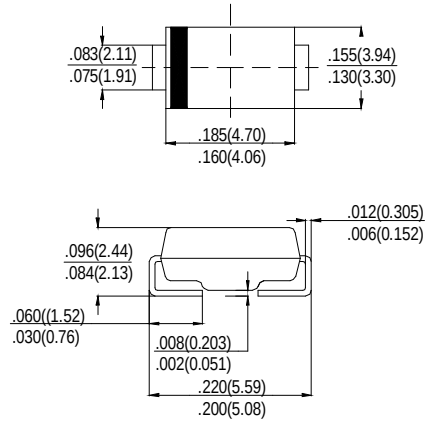
FEATURES

- Ideal for surface mounted applications
- Low leakage current
- Glass passivated junction

MECHANICAL DATA

- ***Case*:** Molded plastic
- ***Epoxy*:** UL94V-0 rate flame retardant
- ***Terminals*:** Solder plated,solderable per MIL-STD- 750, Method 2026
- ***Polarity*:** As marked
- ***Mounting position*:** Any
- ***Weight*:** 0.093 grams

SMB（DO-214AA）



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRONICAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz,resistive or inductive load.
For capacitive load, derate current by 20%.

	SYMBOL	S1A	S1B	S1D	S1G	S1J	S1K	S1M	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 rectified Current at T_A=55°C	I_o	2.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rate load (JEDEC method)	I_{FSM}	60							A
Maximum forward Voltage at 2.0A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T_A=25°C	I_R	5.0							μA
Maximum DC Reverse Current at Rated DC Blocking Voltage @ T_A=125°C	I_R	100							μA
Typical Thermal Resistance (Note2)	$R_{\theta JL}$	12							°C/W
Typical Junction Capacitance (Note1)	C_J	30							pF

Notes: 1.Measured at 1MHz and applied reverse voltage of 4.0 volts
2.Thermal Resistance (Junction to Ambient), .0.2×0.2in^2 (5×5mm^2) copper pads to each terminal