



S1AB THRU S1MB SURFACE MOUNT GLASS PASSIVATED RECTIFIER

TECHNICAL
SPECIFICATION

VOLTAGE: 50 TO 1000V CURRENT: 1.0A

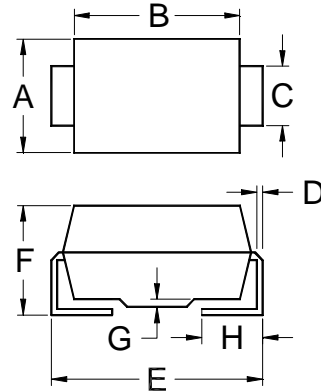
FEATURES

- 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

SMB/DO-214AA



	A	B	C	D
MAX.	.155(3.94)	.180(4.57)	.083(2.11)	.012(0.30)
MIN.	.130(3.30)	.160(4.06)	.077(1.96)	.006(0.15)
	E	F	G	H
MAX.	.220(5.59)	.096(2.44)	.008(0.203)	.060(1.52)
MIN.	.205(5.21)	.084(2.13)	.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 derate current by 20%)

RATINGS	SYMBOL	S1AB	S1BB	S1DB	S1GB	S1JB	S1KB	S1MB
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000
Maximum Average Forward Rectified Current ($T_L=100^\circ\text{C}$)	$I_{F(AV)}$	1.0						
Peak Forward Surge Current (8.3ms single half sine-wave superimposed on rated load)	I_{FSM}	30						
Maximum Instantaneous Forward Voltage (at rated forward current)	V_F	1.1						
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						
Typical Junction Capacitance (Note 1)	C_J	15						
Typical Thermal Resistance (Note 2)	$R_\theta(ja)$	30						
Storage and Operation Junction Temperature	T_{STG}, T_J	-65 to +150						

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

<http://www.sse-diode.com>

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load,

UNITS

V

V

V

A

A

V

μA

μA

pF

°C/W

°C