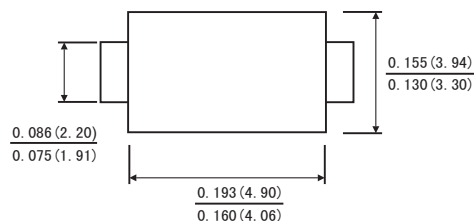


## FEATURES

- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- High surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals  
Component in accordance to RoHS 2011/65/EU

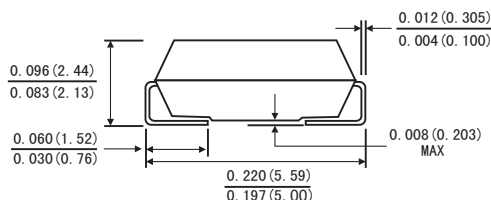


## SMB(DO-214AA)



## MECHANICAL DATA

- Case: JEDEC SMB(DO-214AA) molded plastic body
- Terminals: solder plated, solderable per MIL-STD-750, method 2026
- Polarity: color band denotes cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

## 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 by 20%.)

	Symbols	S5A	S5B	S5D	S5G	S5J	S5K	S5M	Volts
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V <sub>RMS</sub>	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage to T <sub>A</sub> =105°C	V <sub>DC</sub>	50	100	200	400	600	800	1000	Volts
Maximum average Forward Rectified Current	I(AV)	5.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method))	I <sub>FSM</sub>	150							Amps
Maximum Instantaneous Forward Voltage at 5.0 A	V <sub>F</sub>	1.10							Volts
Maximum Reverse current at rated DC Blocking Voltage	T <sub>a</sub> = 25°C	5							μA
	T <sub>a</sub> = 100°C	50							
Typical Thermal Resistance (Note 1)	R <sub>θJA</sub>	65							°C/W
Operating and Storage temperature Range	T <sub>J</sub>	-55 to +150							°C
	T <sub>STG</sub>								

Note: 1. Mounted on P. C. B. with 7×7mm copper pad areas

# RATINGS AND CHARACTERISTIC CURVES S5A THRU S5M

FIG.1-FORWARD CURRENT DERATING CURVE

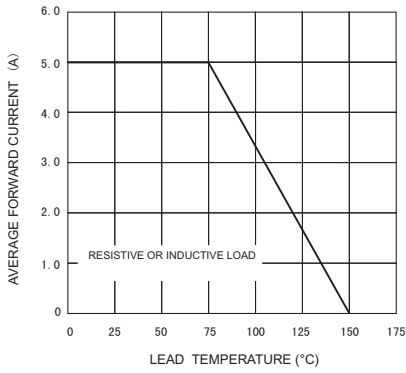


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

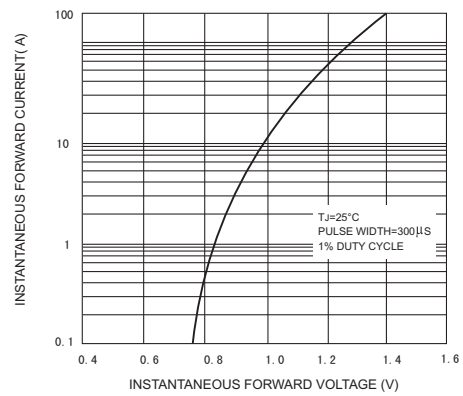


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

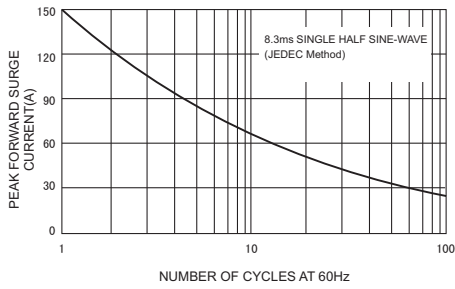


FIG.4-TYPICAL REVERSE CHARACTERISTICS

