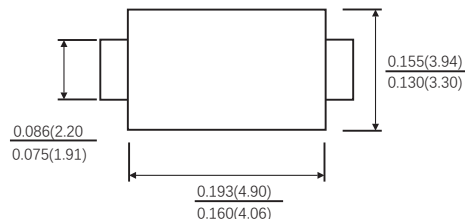


FEATURE

- 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 2015\863\EU

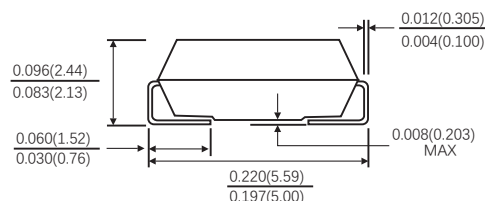


SMB(DO-214AA)



FEATURE

- 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%.)

Parameters		Symbols	S5AB	S5BB	S5DB	S5GB	S5JB	S5KB	S5MB	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage		V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage to $T_A = 105^{\circ}\text{C}$		V_{DC}	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 1ms Square-wave	I_{FSM}	150 300							Amps
Maximum Instantaneous Forward Voltage at 5.0 A		V_F	1.10							Volts
Maximum Reverse current at rated DC Blocking Voltage	$T_A = 25^{\circ}\text{C}$	I_R	5							μA
	$T_A = 100^{\circ}\text{C}$		50							
Typical Thermal Resistance (Note 1)		$R_{\theta JA}$	65							$^{\circ}\text{C/W}$
Operating and Storage temperature Range		T_J T_{STG}	-55 to +150							$^{\circ}\text{C}$

Note: 1. Mounted on PCB with $7 \times 7\text{mm}^2$ copper pad areas

FIG.1-FORWARD CURRENT DERATING CURVE

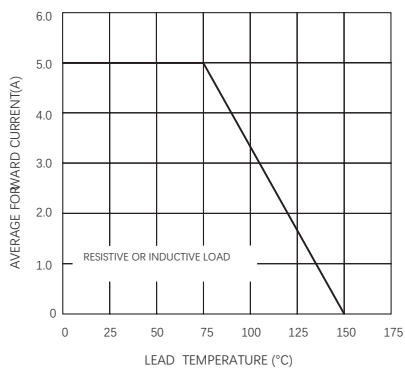


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

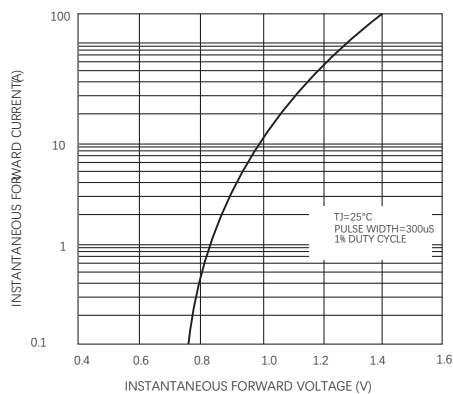


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

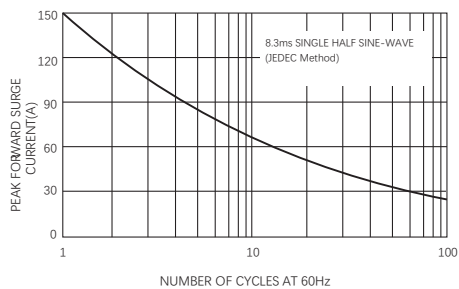


FIG.4-TYPICAL REVERSE CHARACTERISTICS

