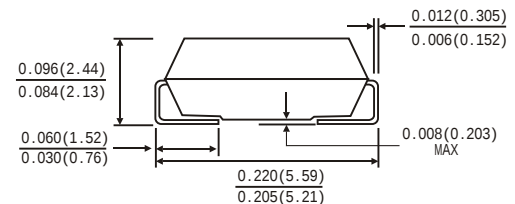
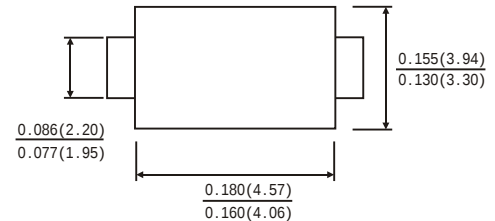


FEATURES

- The plastic package has Underwrites Laboratory Flammability Classification 94V-0
- Construction utilizes void-free molded plastic technique
- High surge current capability
- 2.0A operation at $T_L=75^\circ\text{C}$ with no thermal runaway
- Low reverse leakage
- High temperature soldering guaranteed: 250 C/10 seconds,0.375"(9.5mm) lead length,5lbs.(2.3kg)tension



SMB(DO-214AA)



Dimensions in inches and (millimeters)

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
- Weight: 0.003ounce,0.093 gram

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	S2A	S2B	S2D	S2G	S2J	S2K	S2M	Units
Maximum Recurrent Peak Reverse Voltage		VRRM	50	100	300	400	600	200	1000	Volts
Maximum RMS Voltage		VRMS	35	70	210	280	420	140	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	300	400	600	200	1000	Volts
Maximum average Forward Rectified Current 0.375"(9.5mm)lead length at TA=75 C		IAV)	2.0							Amps
Peak Forward Surge Current (8.3ms half sine-wave superimposed on rated load (JEDEC method)		IFSM	70.0							Amps
Maximum Instantaneous Forward Voltage at 2.0 A		VF	1.1							Volts
Maximum Reverse current at rated DC Blocking Voltage	TA =25℃	IR	5.0							μA
	TA =100℃		50.0							
Typical Thermal Resistance (Note 2)		RO JA	40.0							℃/W
Typical Junction Capacitance(Note 1)		CJ	20.0							pF
Operating and Storage Temperature Range		TJ TSTG	-50 to+175							℃

Note: 1.Measured at 1MHz and applied reverse voltage of 4.0V DC.

2.Thermal resistance from junction to ambient and from junction to lead at 0.375"(9.5mm)lead length ,
P.C.B. mounted

RATINGS AND CHARACTERISTIC CURVES S2ATHRU S2M

FIG.1-FORWARD CURRENT DERATING CURVE

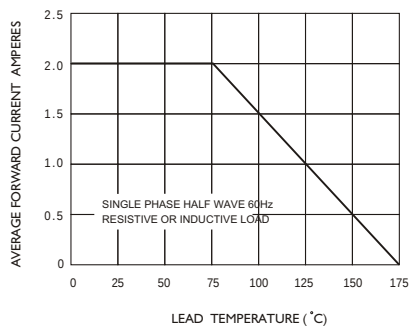


FIG.2-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

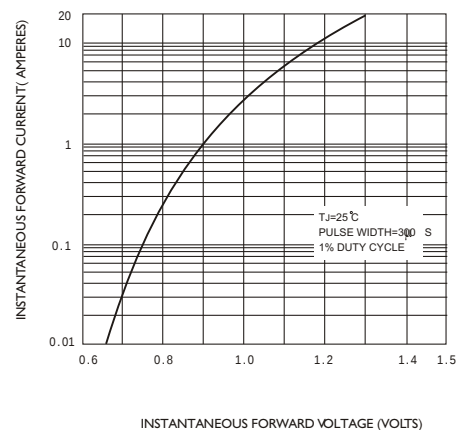


FIG.3-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

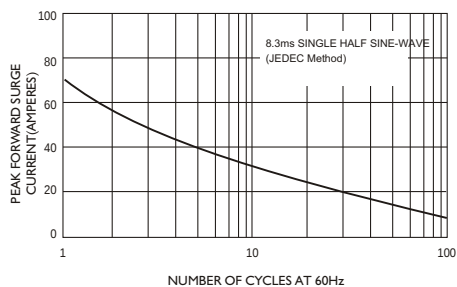


FIG.4-TYPICAL REVERSE CHARACTERISTICS

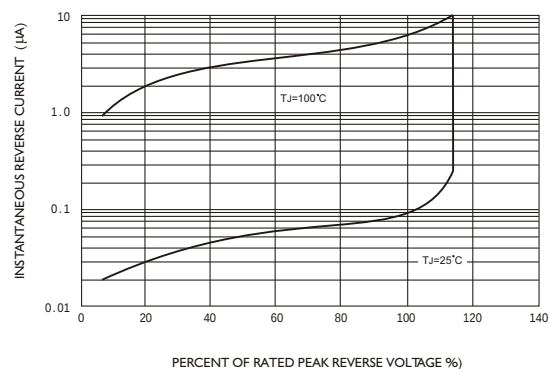


FIG.5-TYPICAL JUNCTION CAPACITANCE

