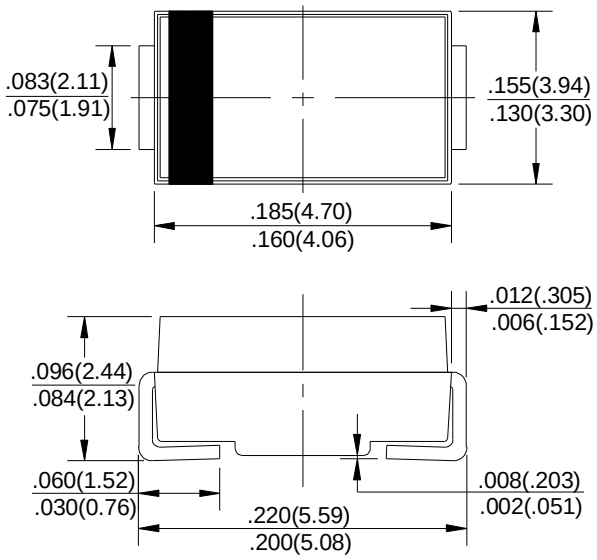
CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

S2AB THRU S2MB

DO-214AA (SMB)



Dimensions in inches and (millimeters)

FEATURES

Plastic package has underwrites laboratory flammability Classification 94V-0
For surface mounted applications
Low profile package
Built-in strain relief, ideal for automated placement
Glass Passivated chip junction
High temperature soldering guaranteed
250℃/10 second at terminals

MECHANICAL DATA

Case: JEDED SMB molded plastic over glass passivated chip
Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
Polarity: Color band denotes cathode end
Weight: 0.003ounce, 0.0093gram

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

Ratings at 25℃ ambient temperature unless otherwise specified

	SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Repetitive 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	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T_L=100℃	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T_L=100℃	I_{FSM}	50							Amps
Typical Thermal Resistance (NOTE 1)	$R_{\theta JA}$	53							℃/W
	$R_{\theta JL}$	16							
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150							℃

ELECTRICAL CHARACTERISTICS

		SYMBOLS	S2A	S2B	S2D	S2G	S2J	S2K	S2M	UNIT
Maximum Instantaneous Forward Voltage at 1.5A		V_F	1.15							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T_A = 25℃	I_R	5.0							μA
	T_A = 125℃		125							
Typical Reverse Recovery Time at I_F=0.5A, I_R=1.0A, I_{RR}=0.25A,		T_{rr}	2.0							μs
Typical junction capacitance at 4.0V, 1MHz		C_J	30							pF

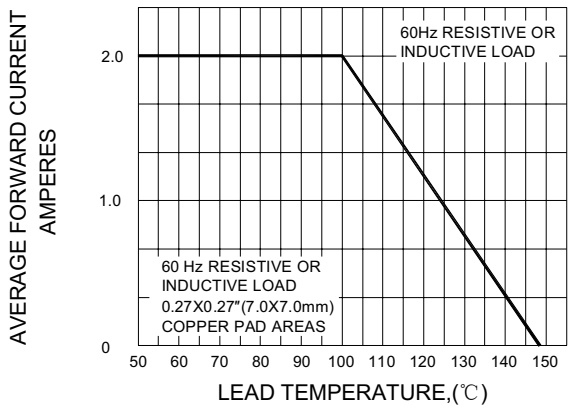
Notes:
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3×0.3″ (8.0 × 8.0mm) copper pad areas.

CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

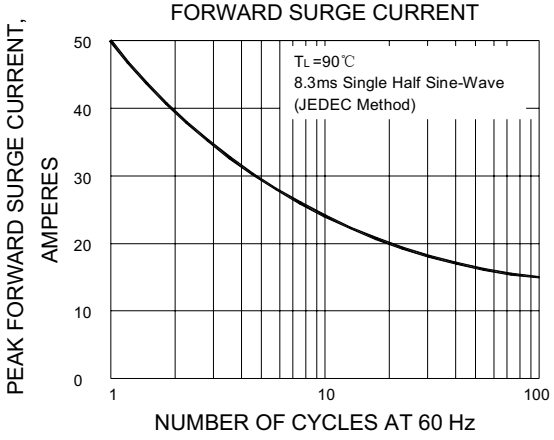
S2AB THRU S2MB

RATING AND CHRACTERISTIC CURVES S2A Thru S2M

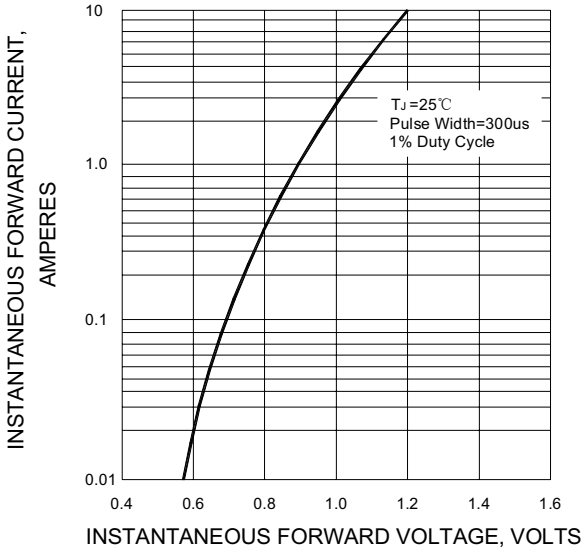
F1G.1-FORWARD CURRENT DERATING CURVE



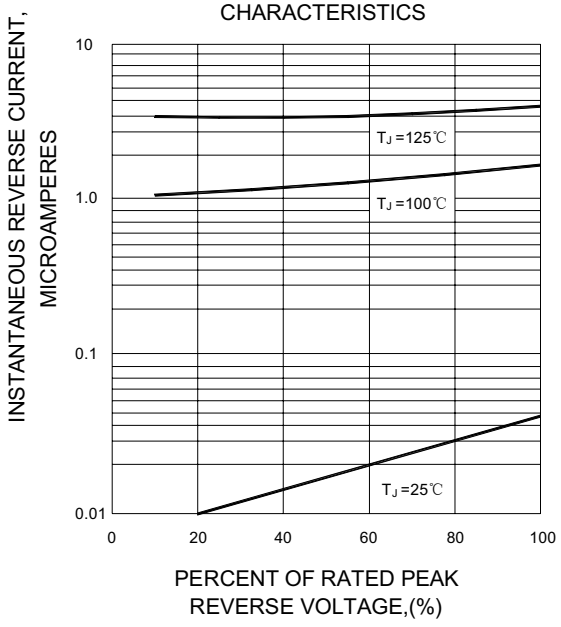
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

