CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

RS2AB THRU RS2MB

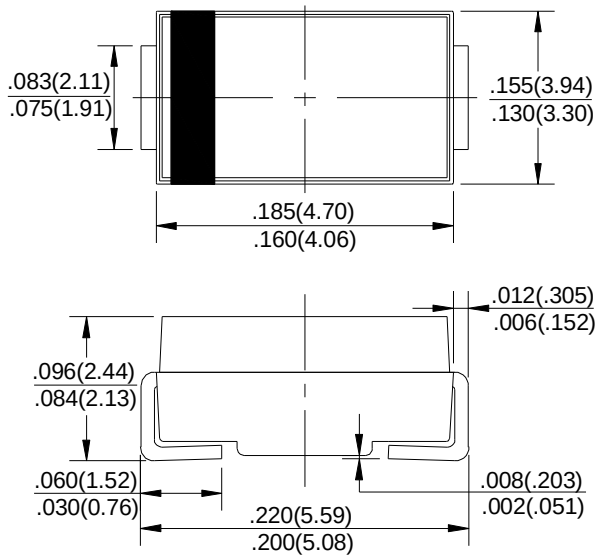
FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- Low profile surface mount package
- Built-in strain relief
- Fast switching for high efficiency
- Glass Passivated chip junction
- High temperature soldering: 250 /10 second at terminals

MECHANICAL DATA

- Case: JEDED DO-214AA 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, 0.094 gram

DO-214AA (SMB)



Dimensions in inches and (millimeters)

MAXIMUM RATINGS & THERMAL CHARACTERISTICS

- Ratings at 25 ambient temperature unless otherwise specified

PARAMETELS	SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	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_{JA}	55							/W
	R_{JL}	18							
Operating and Storage Temperature Range	T_J,T_{STG}	-55 to +150							

ELECTRICAL CHARACTERISTICS

PARAMETELS		SYMBOLS	RS2A	RS2B	RS2D	RS2G	RS2J	RS2K	RS2M	UNIT
Maximum Instantaneous Forward Voltage at 2.0A		V_F	1.30							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	T_A = 25	I_R	5.0							μA
	T_A = 125		200							
Typical Reverse Recovery Time I_F=0.5A, I_R=1.0A, I_{RR}=0.25A,		T_{rr}	150				250	500		ns
Typical junction capacitance at 4.0V, 1MHz		C_J	30							pF

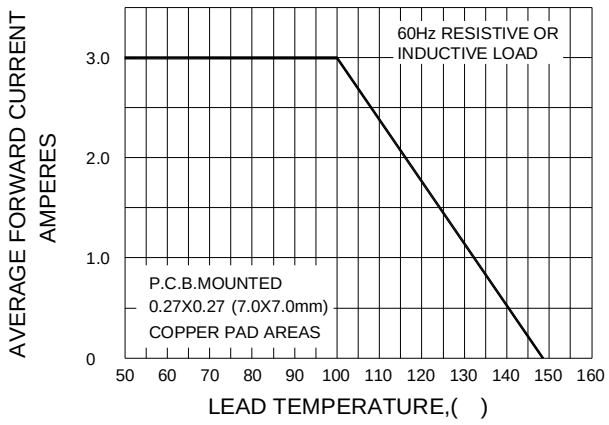
Notes:
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with 0.27×0.27″ (7.0 × 7.0mm) copper pad areas.

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VOLTAGE RANG 50 to 1000 Volts

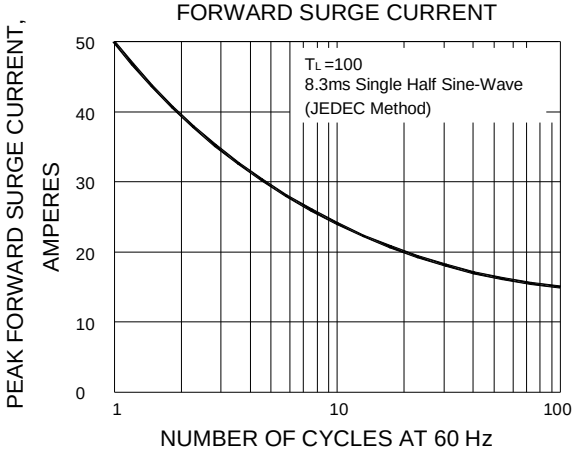
RS2AB THRU RS2MB

RATING AND CHRACTERISTIC CURVES RS2A Thru RS2M

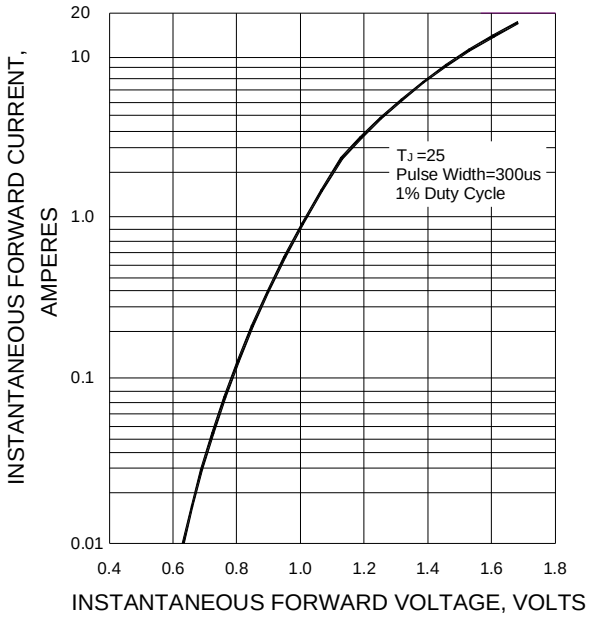
F1G.1-FORWARD CURRENT DERATING CURVE



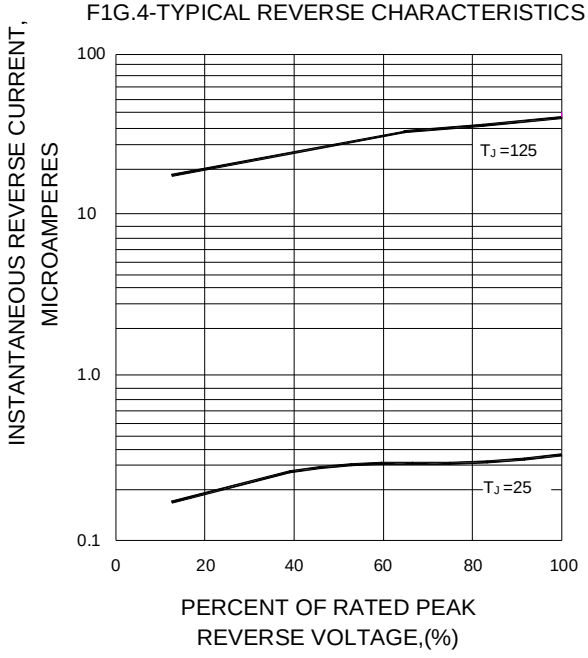
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE

