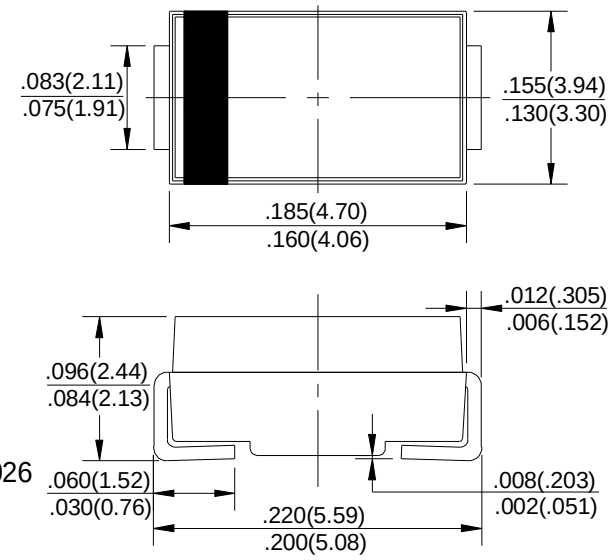
CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

GS2AB THRU GS2MB

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

DO-214AA (SMB)



Dimensions in inches and (millimeters)

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	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	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=100	$I_{F(AV)}$	2.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) T=100	I_{FSM}	50							Amps
Typical Thermal Resistance (NOTE 1)	R_{JA}	53							/W
	R_{JL}	16							
Operating and Storage Temperature Range	T_J, T_{STG}	-55 to +150							

ELECTRICAL CHARAC TERISTICS

		SYMBOLS	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	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							A
	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							s
Typical junction capacitance at 4.0V, 1MHz		C_J	30							pF

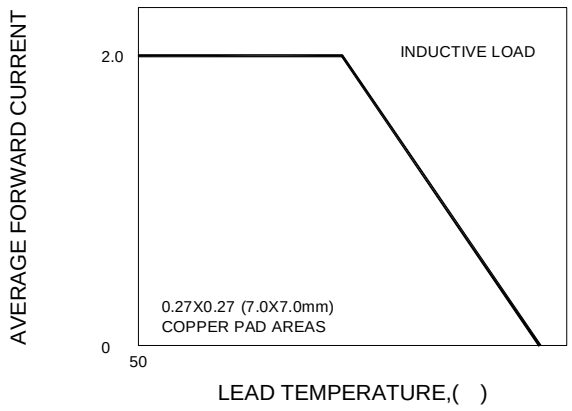
Notes:
1. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B.with 0.3×0.3 (8.0× 8.0mm) copper pad areas.

CURRENT 2.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

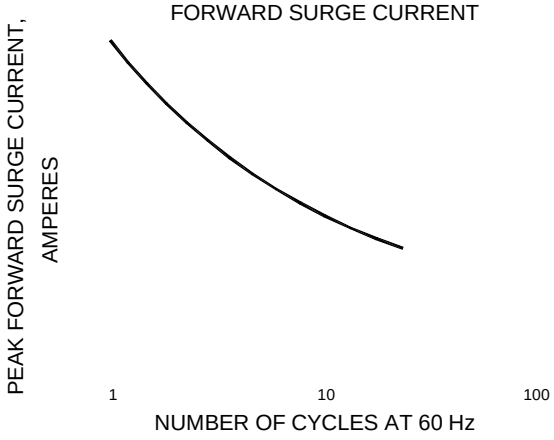
GS2AB THRU GS2MB

RATING AND CHRACTERISTIC CURVES GS2A Thru GS2M

F1G.1-FORWARD CURRENT
DERATING CURVE

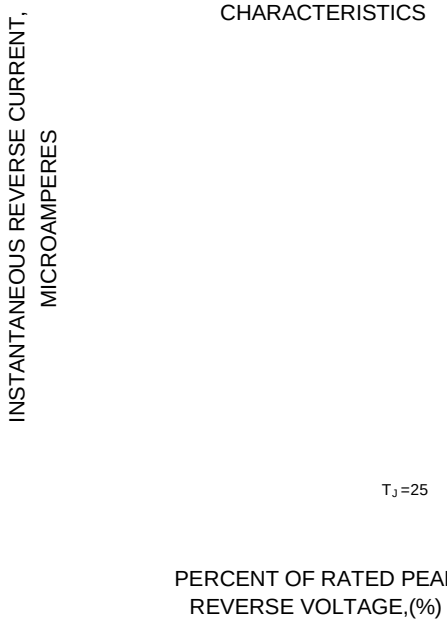


F1G.2-MAXIMUM NON-REPETITIVE PEAK
FORWARD SURGE CURRENT



F1G.3-TYPICAL INSTANTANEOUS
FORWARD CHARACTERISTICS

F1G.4-TYPICAL REVERSE
CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE