

GS3A THRU GS3M

SURFACE MOUNT GENERAL RECTIFIER **VOLTAGE RANGE 50 to 1000 Volts CURRENT 3.0 Ampere**

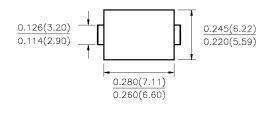
FEATURES

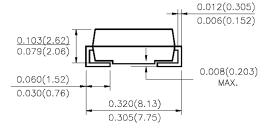
- ◆ Plastic package has underwrites laboratory flammability Classification 94V-0
- ◆For surface mounted applications
- ◆Low profile package
- ◆Built-in strain relief, ideal for automated placement
- ◆Glass Passivated chip junction
- ♦ High temperature soldering: 250°C/10 second at terminals

Mechanical Data

- ◆Case: JEDED DO-214AB molded plastic over glass passivated chip
- ◆ Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
- ◆Polarity: Color band denotes cathode end

DO-214AB (SMC)





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

PARAMETER		SYMBOLS	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M	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 $T_L = 100$ °C (NOTE 3)		$I_{(AV)}$	3.0							Amps
Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC method) TL=100°C		I _{FSM}	100							Amps
Maximum Instantaneous Forward Voltage at 3.0A		V_{F}	1.10							Volts
Maximum DC Reverse Current at rated DC Blocking Voltage	$T_A = 25$ °C	I_R	10.0							
	$T_A = 125$ °C					25				μА
Typical Reverse Recovery Time (NOTE 1)		Trr	2.5							μs
Typical junction capacitance (NOTE 2)		C_{J}	60							pF
Typical Thermal Resistance (NOTE 3)		$R_{ heta JL}$	47							°C/W
		$R_{ heta JA}$	13							
Operating and Storage Temperature Range		T_{J} , T_{STG}	-55 to +150							°C

Note: 1. Reverse recovery test conditions: IF =0.5A, IR =1.0A, Irr =0.25A

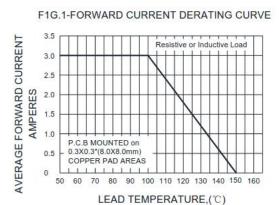
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts
- 3. Thermal resistance from Junction to ambient and from junction to lead mounted on P.C.B. with $0.3\times0.3''(8.0\times8.0\text{mm})$ copper pad areas.

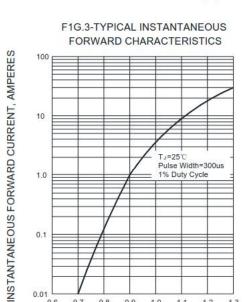


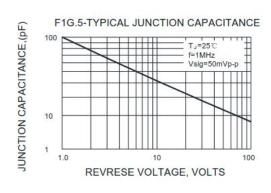
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SURFACE MOUNT GENERAL RECTIFIER VOLTAGE RANGE 50 to 1000 Volts **CURRENT 3.0 Ampere**

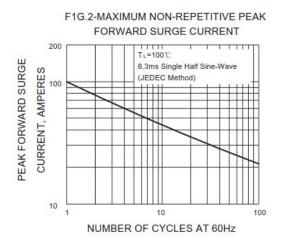
RATING AND CHARACTERISTIC CURVES GS3A THRU GS3M

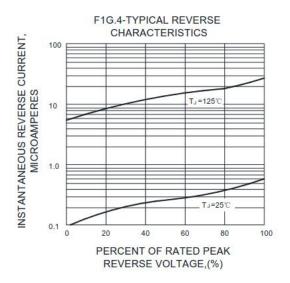


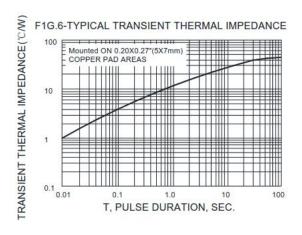




0.9 INSTANTANEOUS FORWARD VOLTAGE, **VOLTS**







Note: Specifications are subject to change without notice. For more detail and update, please visit our website.