

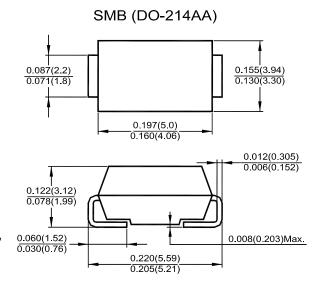
Surface Mount General Rectifier Reverse Voltage – 50 to 1000 V Forward Current – 1 A

Features

- The Plastic package carries Underwriters Laboratories
 Flammability Classification 94V-0
- · For surface mounted applications
- · Low reverse leakage
- · Built-in strain relief, ideal for automated placement
- · High forward surge current capability

Mechanical Data

- · Case: JEDEC DO-214AA, molded plastic body
- **Terminals:** Solder plated, solderable per MIL-STD-750, Method 2026
- · Polarity: Color band denates cathode end
- Mounting Position: Any



Dimensions in inches and (millimeters)

Absolute Maximum Ratings and Characteristics

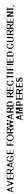
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60 Hz, resistive or inductive load, for capacitive load derate current by 20%.

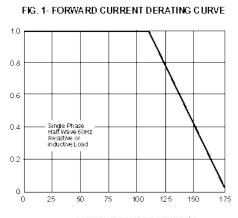
Parameter	Symbols	GS1A	GS1B	GS1D	GS1G	GS1J	GS1K	GS1M	Units
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current at T_L = 110 $^{\circ}$ C	I _(AV)	1							Α
Peak Forward Surge Current 8.3 ms Single Half Sine -wave Superimposed on Rated Load (JEDEC Method)	I _{FSM}	30							Α
Maximum Instantaneous Forward Voltage at 1 A	V_{F}	1.1							V
Maximum DC Reverse Current $T_A = 25$ °C at Rated DC Blocking Voltage $T_A = 100$ °C	I _R	5 50							μA
Typical Junction Capacitance 1)	CJ	15							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	75							°C/W
Operating Junction and Storage Temperature Range	T_j , T_{stg}	- 65 to + 175							°C

 $^{^{\}rm 1)}$ Measured at 1 MHz and applied reverse voltage of 4 V.

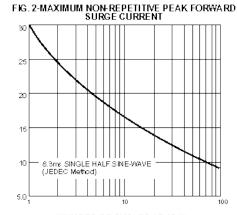
 $^{^{\}rm 2)}$ P.C.B. mounted with 0.2 X 0.2" (5.0 X 5.0 mm) copper pad areas.





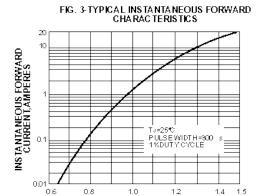


EPEAK FORWARD SURGE CURRENT, AMPERES



AMBIENT TEMPERATURE, °C

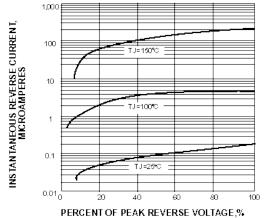
NUMBER OF CYCLES AT 60 Hz



1.0

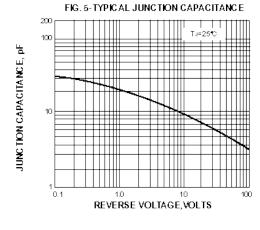
0.8

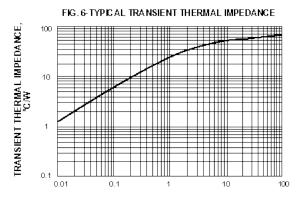




INSTANTANEOUS FORWARD VOLEAGE, VOLTS

1.4 1.5





t,PULSE DURATION,sec.