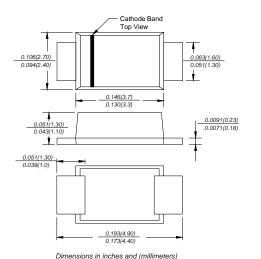


# **GS1AF THRU GS1MF**

#### SURFACE MOUNT GENERAL RECTIFIER

Reverse Voltage - 50 to 1000 Volts Forward Current - 1.0 Ampere

#### **SMAF**



#### **FEATURES**

- ◆ The plastic package carries Underwriters Laboratory Flammability Classification 94V-0
- For surface mounted applications
- Low reverse leakage
- ◆ Built-in strain relief,ideal for automated placement
- High forward surge current capability
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Glass passivated chip junction

#### **MECHANICAL DATA**

Case: JEDEC SMAF molded plastic body over passivated chip

**Terminals**: Solder plated, solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position: Any

Weight: 0.0018 ounce, 0.064 grams

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

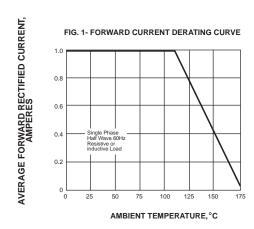
Ratings at 25°C ambient temperature unless otherwise specified. Single phase half-wave 60Hz, resistive or inductive load, for capacitive load current derate by 20%.

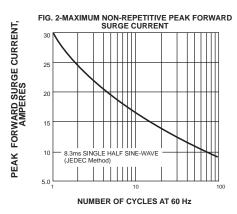
MDD Catalog Number	SYMBOLS	GS1AF	GS1BF	GS1DF	GS1GF	GS1JF	GS1KF	GS1MF	UNITS
Maximum repetitive peak reverse voltage	Vrrm	50	100	200	400	600	800	1000	VOLTS
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	VOLTS
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	VOLTS
Maximum average forward rectified current	l(AV)	I(AV) 1.0						Amp	
at TL=75℃	I(AV)	1.0							
Peak forward surge current	IFSM 30.0								
8.3ms single half sine-wave superimposed on								Amps	
rated load (JEDEC Method)									
Maximum instantaneous forward voltage at 1.0A	VF	1.1							Volts
Maximum DC reverse current Ta=25℃	١.			5.0					μΑ
at rated DC blocking voltage Ta=100℃	lr	50.0						μΛ	
Typical junction capacitance (NOTE 1)	Сл	15.0						pF	
Typical thermal resistance (NOTE 2)	Reja	75.0						°C/W	
Operating junction and storage temperature range	ТЈ,Тѕтс	-50 to +150						°C	

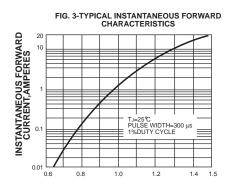
Note:1.Measured at 1MHz and applied reverse voltage of 4.0V D.C. 2.P.C.B. mounted with 0.2x0.2"(5.0x5.0mm) copper pad areas

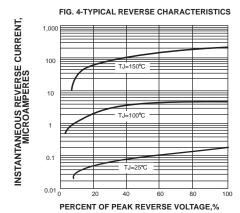


## RATINGS AND CHARACTERISTIC CURVES GS1AF THRU GS1MF

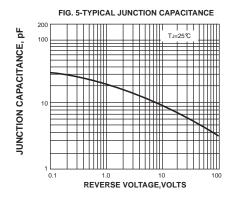


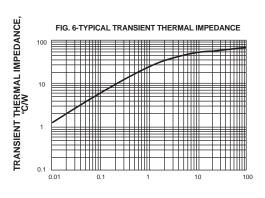












t,PULSE DURATION,sec.

The cruve graph is for reference only, can't be the basis for judgment(曲线图仅供参考)!

