



GS1GF SERIES

SURFACE MOUNT RECTIFIER

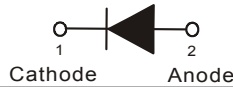
VOLTAGE 400-1000 Volts **CURRENT** 1 Ampere

FEATURES

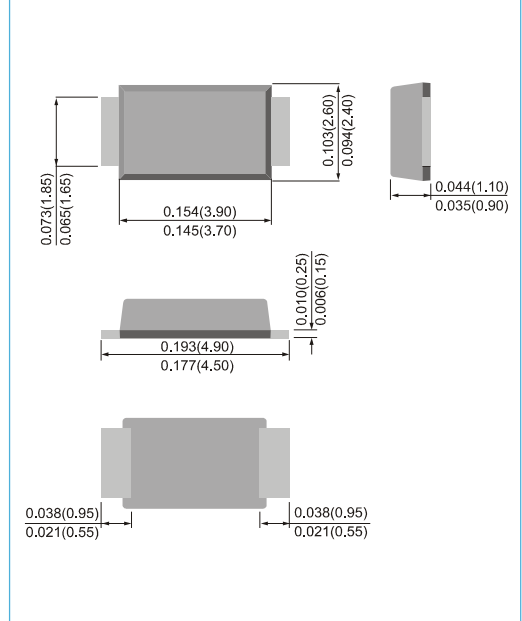
- For surface mounted applications
- Low profile package
- Built-in strain relief
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Low Forward Drop
- High temperature soldering : 260°C/10 seconds at terminals
- Glass Passivated Chip Junction
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SMAF molded plastic
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity : Color band denotes cathode end



SMAF Unit : inch(mm)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (T_A=25°C unless otherwise noted)

PARAMETER	SYMBOL	GS1GF	GS1JF	GS1KF	GS1MF	UNITS
Recurrent Peak Reverse Voltage	V _{RRM}	400	600	800	1000	V
RMS Voltage	V _{RMS}	280	420	560	700	V
DC Blocking Voltage	V _R	400	600	800	1000	V
Average Forward Current	I _{F(AV)}	1.0				A
Peak Forward Surge Current : 8.3ms single half sine-wave superimposed on rated load(JEDEC method)	I _{FSM}	30				A
Forward Voltage at 1.0A	V _F	1.1				V
DC Reverse Current at Rated DC Blocking Voltage	I _R	1.0				μA
Typical Junction capacitance	C _J	7				pF
Typical Thermal Resistance ,Junction to Lead (Note 1) Junction to Ambient (Note 1)	R _{θJL} R _{θJA}	20 83				°C / W
Operating Junction Temperature and Storage Temperature Range	T _J , T _{STG}	-55 to +150				°C

NOTES :

1. Mounted on 48cm² FR-4 PCB.



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RATING AND CHARACTERISTIC CURVES

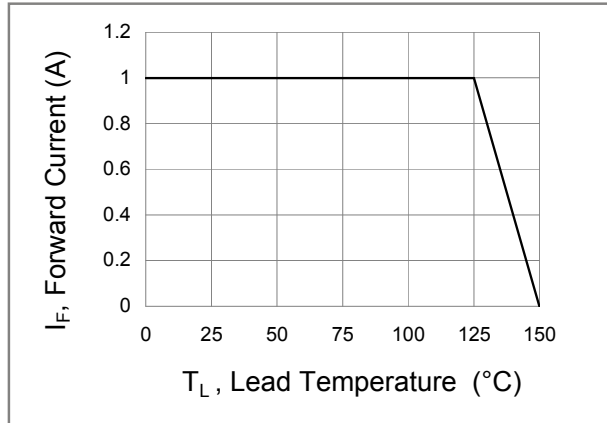


Fig.1 Forward Current Derating Curve

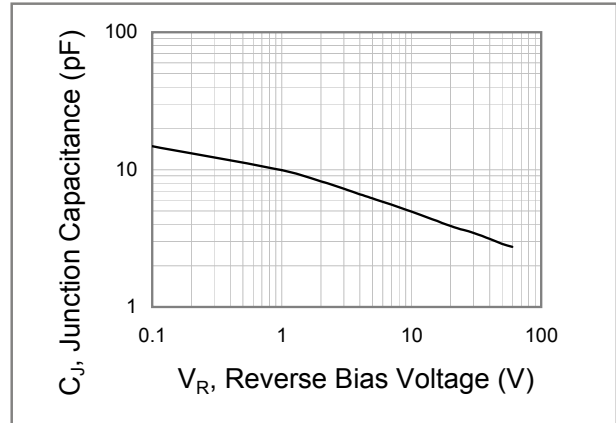


Fig.2 Typical Junction Capacitance

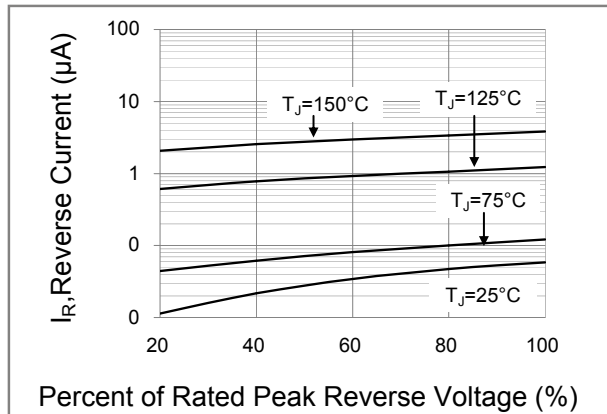


Fig.3 Typical Reverse Characteristics

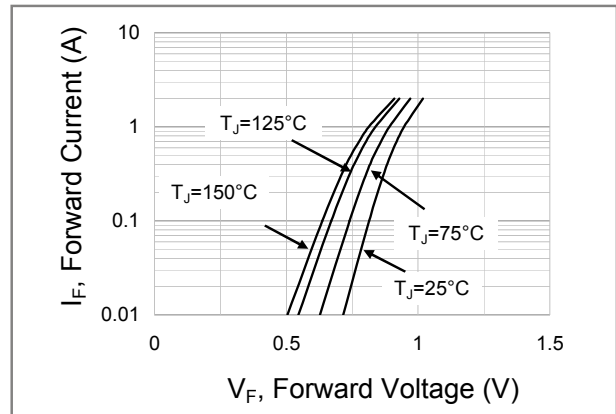


Fig.4 Typical Forward Characteristics