



SURFACE MOUNT RECTIFIER

Voltage

200~1000 V

Current

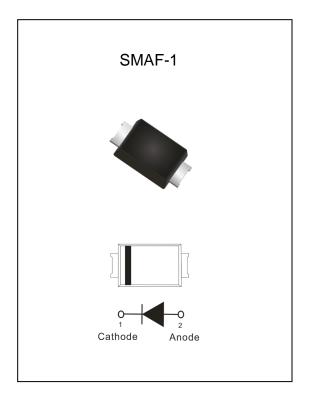
2 A

Features

- For surface mounted applications in order to optimize board space
- Easy pick and place
- Plastic package has Underwriters Laboratory Flammability Classification 94V-O
- Low forward drop
- High temperature soldering : 260°C/10 seconds at terminals
- Glass passivated chip junction
- Ultra thin profile package for space constrained utilization
- Package suitable for automated handling
- Lead free in compliance with EU RoHS 2.0
- Green molding compound as per IEC 61249 standard

Mechanical Data

- Case: Molded plastic, SMAF-1
- Terminals: Solder plated, solderable per MIL-STD-750, Method 2026
- Polarity: Color Band denotes cathode end
- Approx. Weight: 0.00093 ounces, 0.027 grams



Maximum Ratings (T_A=25°C unless otherwise noted)

PARAMETER		SYMBOL	GS2DF-LE	GS2GF-LE	GS2JF-LE	GS2KF-LE	GS2MF-LE	UNIT
Maximum repetitive peak reverse voltage		Vrrm	200	400	600	800	1000	V
Maximum rms voltage		VRMS	140	280	420	560	700	٧
Maximum dc blocking voltage		VR	200	400	600	800	1000	V
Maximum average forward current		I F(AV)	2					Α
Peak forward surge current : 8.3ms single half sine-wave superimposed on rated load		lfsм	60					А
Typical forward voltage at 2A		VF	1.1					V
Maximum dc reverse current at rated dc blocking voltage		lR	5					μА
Typical junction capacitance Measured at 1MHz and applied VR=4V		CJ	22					pF
Typical thermal resistance	(Note 1)	RөJA	150 16.5					°C/W
	(Note 2)	Rелс						
Operating and storage temperature range		ТJ, Tsтg	-55 to +150					°C

Note: 1. Mounted on a FR4 PCB, single-sided copper, mini pad.

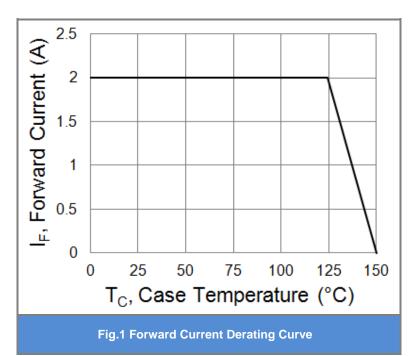
2. Mounted on a FR4 PCB, single-sided copper, with 100cm² copper pad area

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TYPICAL CHARACTERISTIC CURVES



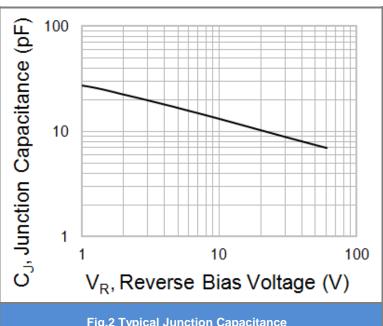
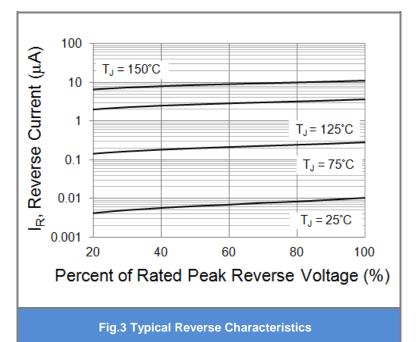


Fig.2 Typical Junction Capacitance



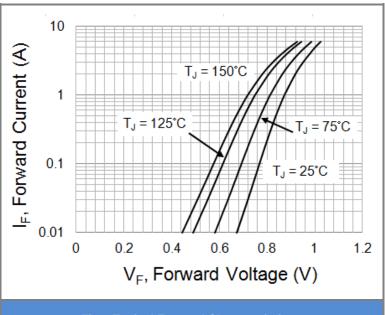


Fig.4 Typical Forward Characteristics

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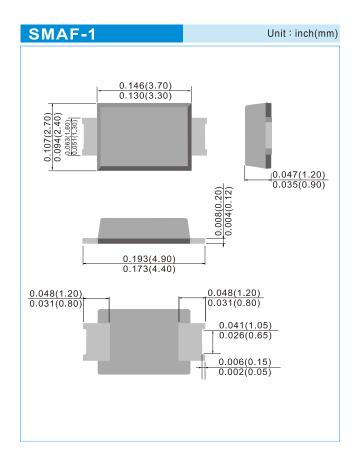


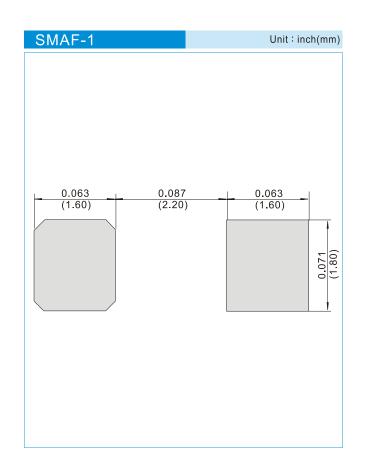


Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
GS2DF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	LGS2DF	Halogen free
GS2DF-LE_R2_00001	SMAF-1	10K pcs / 13" reel	LGS2DF	Halogen free
GS2GF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	LGS2GF	Halogen free
GS2GF-LE_R2_00001	SMAF-1	10K pcs / 13" reel	LGS2GF	Halogen free
GS2JF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	LGS2JF	Halogen free
GS2JF-LE_R2_00001	SMAF-1	10K pcs / 13" reel	LGS2JF	Halogen free
GS2KF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	LGS2KF	Halogen free
GS2KF-LE_R2_00001	SMAF-1	10K pcs / 13" reel	LGS2KF	Halogen free
GS2MF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	LGS2MF	Halogen free
GS2MF-LE_R2_00001	SMAF-1	10K pcs / 13" reel	LGS2MF	Halogen free

Packaging Information & Mounting Pad Layout





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