



SMAF-1

GS1GF-LE~GS1MF-LE SURFACE MOUNT RECTIFIER



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 RoHS2.0 (2011/65/EU & 2015/865/EU directive)
- Green molding compound as per IEC61249 Std..(Halogen Free)

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



1 A

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

PARAMETER		SYMBOL	GS1GF-LE	GS1JF-LE	GS1KF-LE	GS1MF-LE	UNIT
			M4	M5	M6	M7	
Maximum repetitive peak reverse voltage		Vrrm	400	600	800	1000	V
Maximum rms voltage		VRMS	280	420	560	700	V
Maximum dc blocking voltage		VR	400	600	800	1000	V
Maximum average forward current		lf(AV)	1				А
Peak forward surge current : 8.3ms single half sine- wave superimposed on rated load		Ifsm	25				А
Typical forward voltage at 1A		VF	1.1				V
Maximum dc reverse current at rated dc blocking voltage		lr	5				μA
Typical junction capacitance Measured at 1MHz and applied V _R =4V		CJ	9				pF
Typical thermal resistance	(Note 1)	Reja	150				°C/W
	(Note 2)	Rejc	20				
Operating and storage temperature range		Tj, Tstg	-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



GS1GF-LE~GS1MF-LE





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Part No Packing Code Version

Part No Packing Code	Package Type	Packing Type	Marking	Version
GS1GF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	M4	Halogen free
GS1JF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	M5	Halogen free
GS1KF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	M6	Halogen free
GS1MF-LE_R1_00001	SMAF-1	3K pcs / 7" reel	M7	Halogen free

Packaging Information & Mounting Pad Layout









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