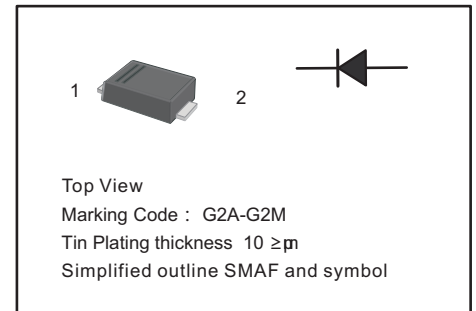


SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

FEATURES

- For surface mounted applications
- Low profile package
- Glass Passivated Chip Junction
- Easy to pick and place
- Lead free in comply with EU RoHS 2011/65/EU directives

PIN	DESCRIPTION
1	Cathode
2	Anode



MECHANICAL DATA

- Case: SMAF
- Tin Plating thickness $10 \geq \mu\text{m}$
- Terminals: Solderable per MIL-STD-750, Method 2026 Approx.
- Weight: 27mg 0.00095oz

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

PARAMETER	SYMBOL	G2AF	G2BF	G2DF	G2GF	G2JF	G2KF	G2MF	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 $T_L = 100^\circ\text{C}$	$I_{F(AV)}$	1.5							A
Peak Forward Surge Current 8.3 ms Single Half Sine Wave Superimposed on Rated Load (JEDEC Method)	I_{FSM}	50							A
Maximum Instantaneous Forward Voltage at 1.5 A	V_F	1.1							V
Maximum DC Reverse Current $T_a = 25^\circ\text{C}$ at Rated DC Blocking Voltage $T_a = 125^\circ\text{C}$	I_R	5 50							μA
Typical Junction Capacitance ¹⁾	C_j	30							pF
Typical Thermal Resistance ²⁾	$R_{\theta JA}$	90							$^\circ\text{C/W}$
Operating and storage Temperature Range	T_j, T_{stg}	$-55 \sim +150$							$^\circ\text{C}$

Notes:

- 1) Measured at 1 MHz and applied reverse voltage of 4 V D.C
- 2) P.C.B. mounted with 0.2 X 0.2" (5 X 5 mm) copper pad areas.

SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

RATINGS AND CHARACTERISTIC CURVES G2AF - G2MF

Fig.1 Forward Current Derating Curve

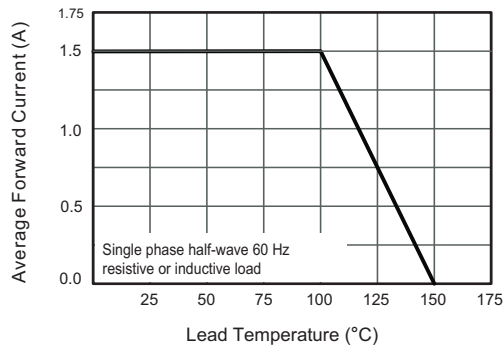


Fig.2 Typical Instantaneous Reverse Characteristics

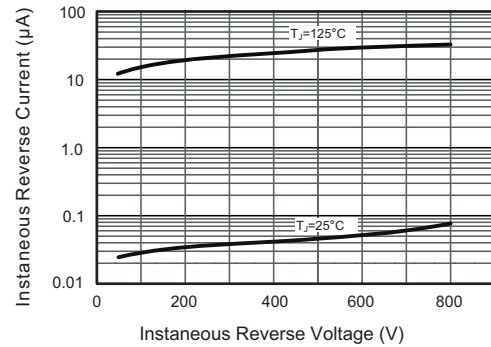


Fig. 3 Typical Forward Characteristics

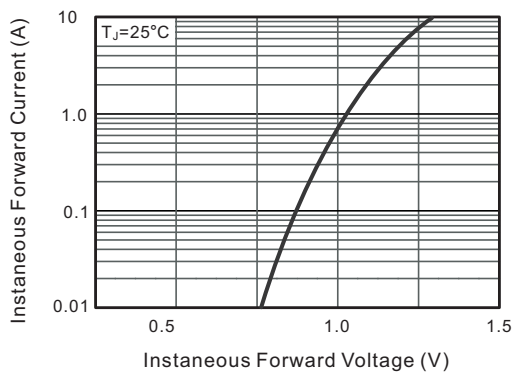


Fig.4 Typical Junction Capacitance

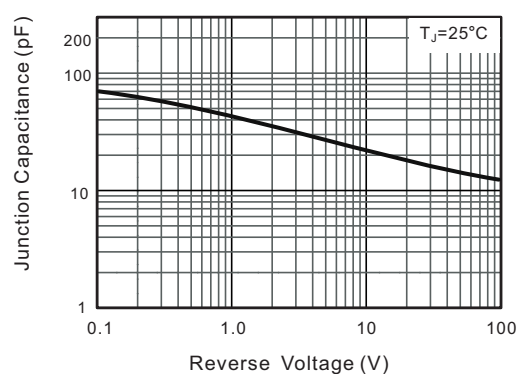
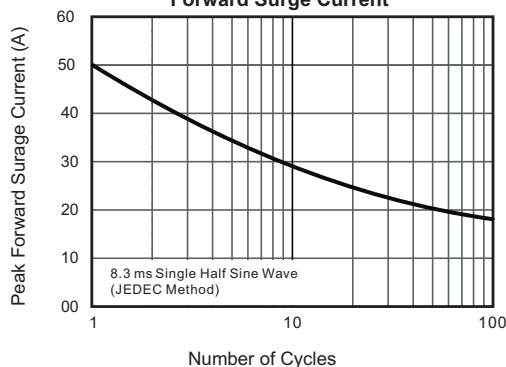


Fig 5. Maximum Non-Repetitive Peak Forward Surge Current

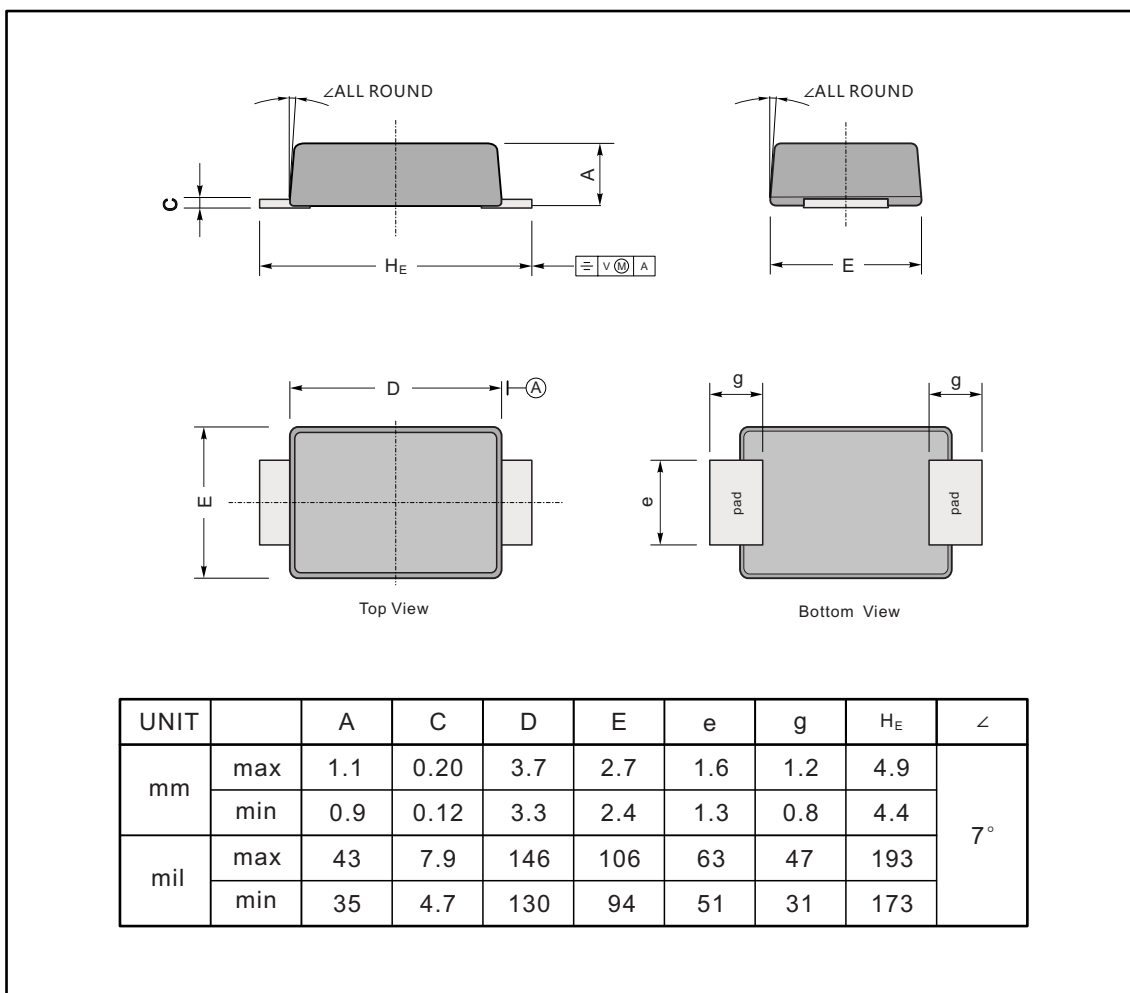


SURFACE MOUNT GENERAL PURPOSE SILICON RECTIFIERS

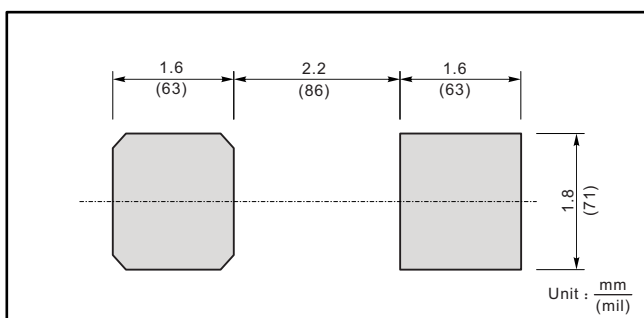
PACKAGE OUTLINE

Plastic surface mounted package; 2 leads

SMAF



The recommended mounting pad size



Marking

Type number	Marking code
G2AF	G2A
G2BF	G2B
G2DF	G2D
G2GF	G2G
G2JF	G2J
G2KF	G2K
G2MF	G2M

Disclaimer

All product, product specifications and data are subject to change without notice to improve reliability, function or design or otherwise.