

GS2A THUR GS2M

GS2A THUR GS2M 2.0 AMP SURFACE MOUNT PURPOSE SILICON RECTIFIERS

General description

2.0 AMP SURFACE MOUNT PURPOSE SILICON RECTIFIERS

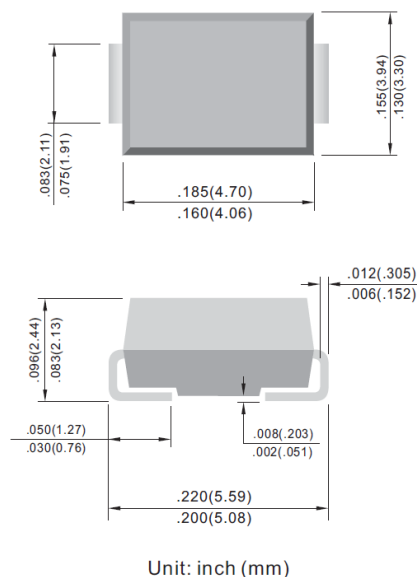
SMB/DO214AA

FEATURES

- For surface mount applications
- Easy pick and place
- Glass Passivated Chip Junction
- Low profile package

MECHANICAL DATA

- Case: Molded plastic
- Epoxy: UL 94V-0 rate flame retardant
- Metallurgically bonded construction
- Polarity: Color band denotes cathode end
- Mounting position: Any
- Weight: 0.055g / 0.002oz



Rating 25 °C ambient temperature unless otherwise specified.

Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

TYPE NUMBER	SYMBOLS	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M	UNITS
Maximum repetitive peak reverse voltage	VRRM	50	100	200	400	600	800	1000	V
Maximum RMS voltage	VRMS	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	VDC	50	100	200	400	600	800	1000	V
Maximum average forward rectified current at TL=90 C	I(AV)	2.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	60.0							A
Maximum instantaneous forward voltage at 3.0A	VF	1.1							V
Maximum DC reverse current TA=25-C at rated DC blocking voltage TA=100-C	IR	5.0 100.0							μA
Typical junction capacitance (NOTE 1)	CJ	25.0							pF
Typical thermal resistance (NOTE 2)	RθJA	60							°C/W
Operating junction and storage temperature range	TJ,TSTG	-55 to +150							°C

Note:

1. Measured at 1MHz and applied reverse voltage of 4.0V D.C.
2. Thermal Resistance Junction to Lead.

GS2A THUR GS2M



Rating And Characteristic Curves

Fig.1 Forward Current Derating Curve

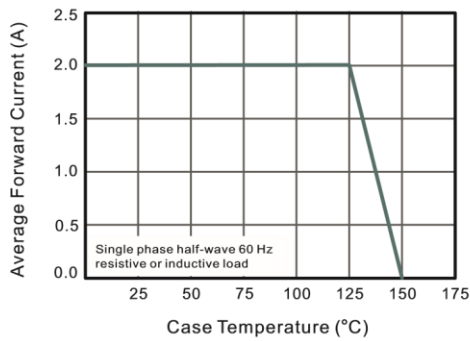


Fig.2 Typical Instantaneous Reverse Characteristics

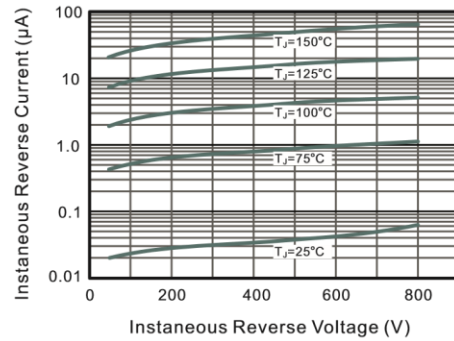


Fig.3 Typical Forward Characteristic

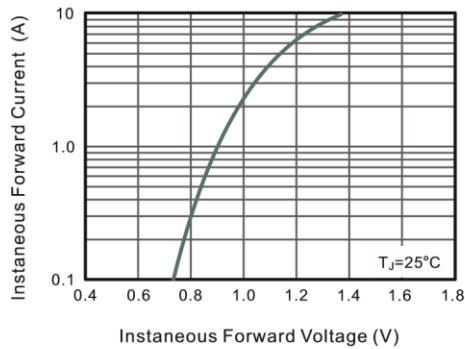


Fig.4 Typical Junction Capacitance

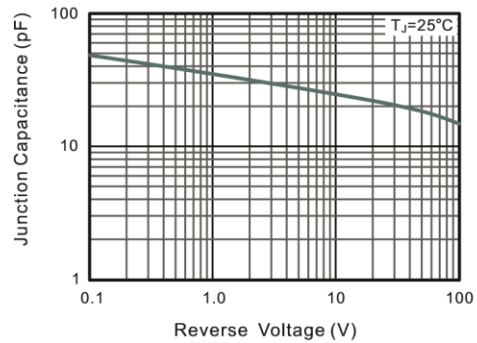
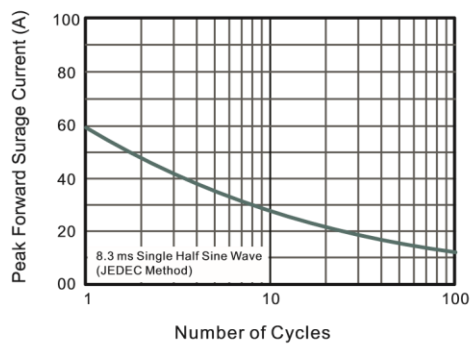


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking:

Type number	GS2A	GS2B	GS2D	GS2G	GS2J	GS2K	GS2M
Marking code	S2A	S2B	S2D	S2G	S2J	S2K	S2M

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