

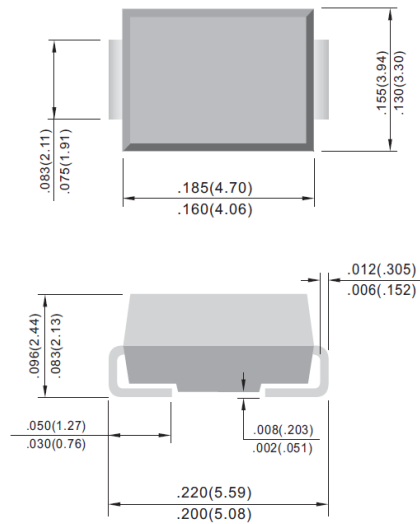
# GS2A THUR GS2M

## GS2A THUR GS2M 2.0 AMP SURFACE MOUNT PURPOSE SILICON RECTIFIERS

### General description

2.0 AMP SURFACE MOUNT PURPOSE SILICON RECTIFIERS

### SMB/DO214AA



Unit: inch (mm)

### 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

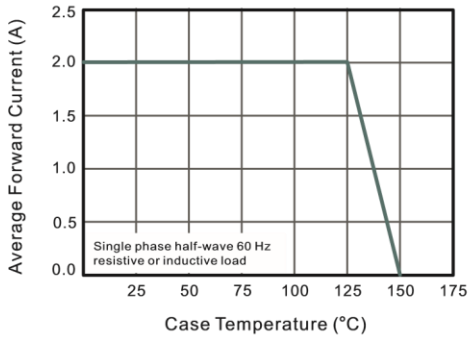


Fig.2 Typical Instaneous Reverse Characteristics

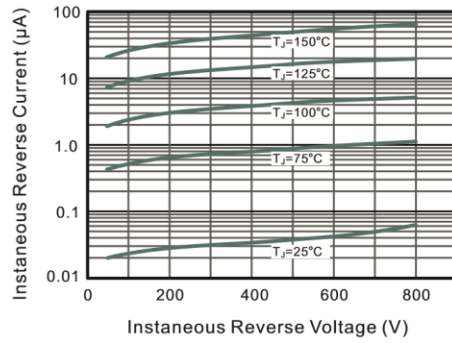


Fig.3 Typical Forward Characteristic

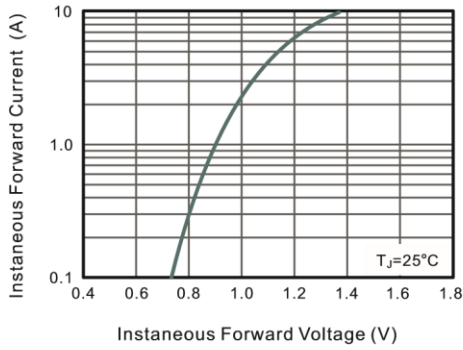


Fig.4 Typical Junction Capacitance

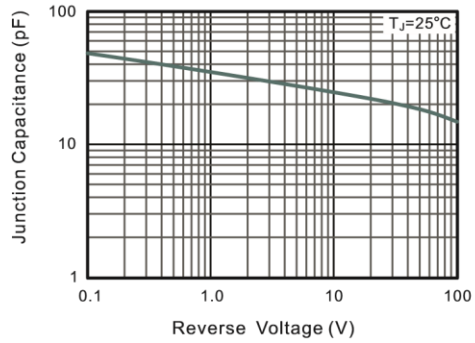
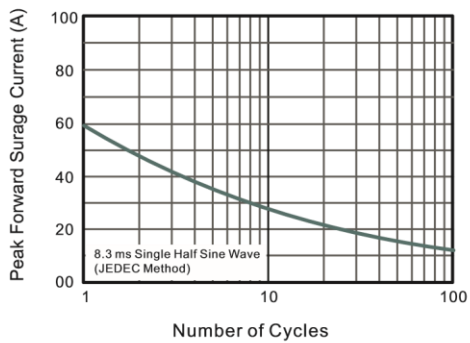


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking:

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

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