

GS3A THUR GS3M

GS3A THUR GS3M 3.0 AMP SURFACE MOUNT SILICON RECTIFIERS

General description

3.0 AMP SURFACE MOUNT SILICON RECTIFIERS

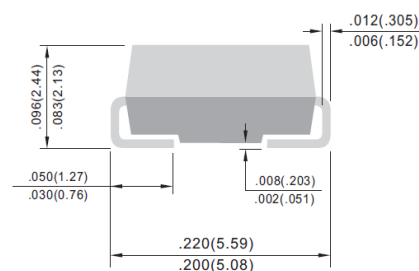
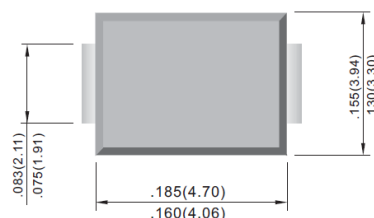
FEATURES

- Ideal for surface mount applications
- Easy pick and place
- Built-in strain relief
- Low forward voltage drop

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: 0.093 gram

SMB/DO214AA



Unit: inch (mm)

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	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M	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)	3.0							A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	80.0							A
Maximum instantaneous forward voltage at 3.0A	VF	1.2							V
Maximum DC reverse current TA=25-C at rated DC blocking voltage TA=100-C	IR	5.0 250.0							μA
Typical junction capacitance (NOTE 1)	CJ	60.0							pF
Typical thermal resistance (NOTE 2)	RθJA	13							°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.



GS3A THUR GS3M

Rating And Characteristic Curves

FIG.1-TYPICAL FORWARD CHARACTERISTICS

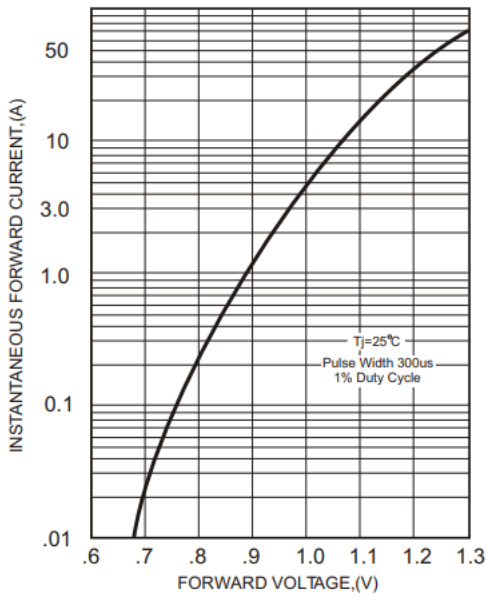


FIG.2-TYPICAL FORWARD CURRENT DERATING CURVE

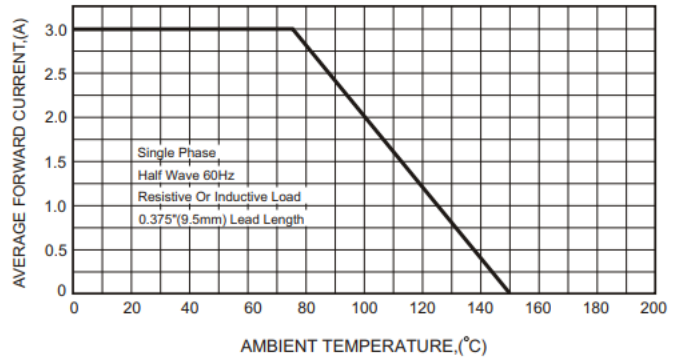


FIG.4-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

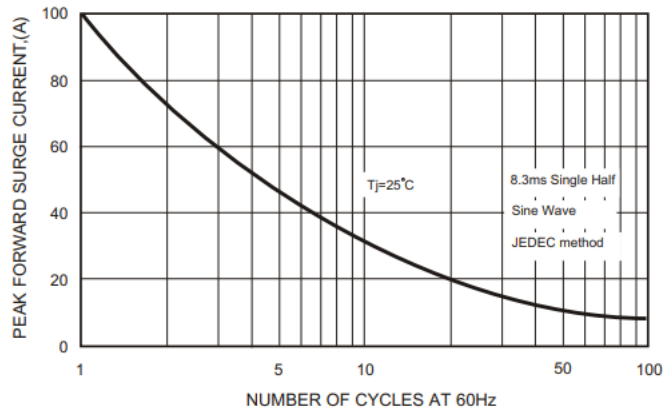


FIG.3 - TYPICAL REVERSE CHARACTERISTICS

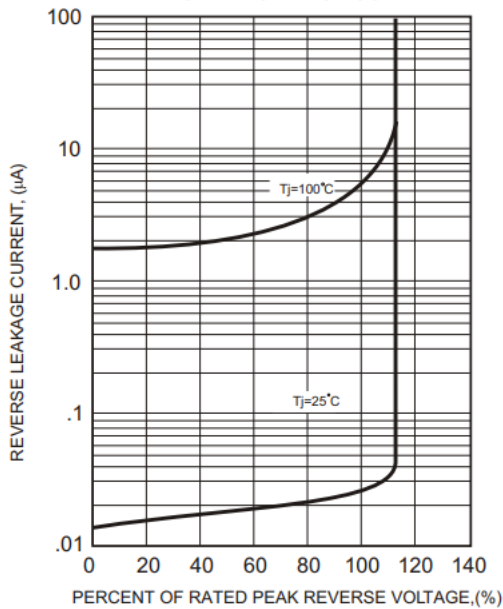
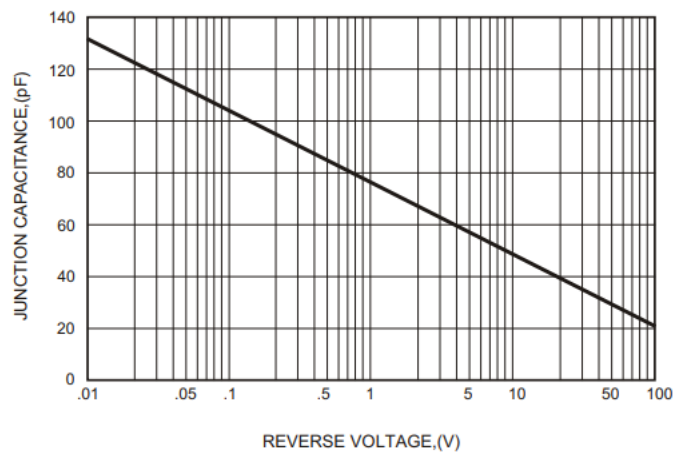


FIG.5-TYPICAL JUNCTION CAPACITANCE



Marking:

Type number	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M
Marking code	S3A	S3B	S3D	S3G	S3J	S3K	S3M

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