

# GS3A THUR GS3M

## GS3A THUR GS3M 3.0 AMP SURFACE MOUNT SILICON RECTIFIERS

### General description

3.0 AMP SURFACE MOUNT SILICON RECTIFIERS

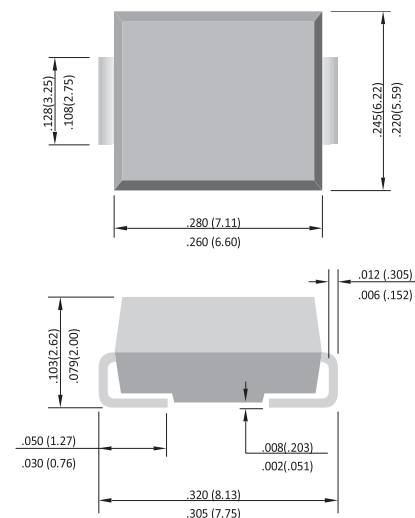
### FEATURES

- Plastic package has underwrites laboratory flammability Classification 94V-0
- For surface mounted applications
- Built-in strain relief, ideal for automated placement
- Glass Passivated chip junction
- High temperature soldering: 250°C/10 second at terminals

### MECHANICAL DATA

- Case: JEDED DO-214AA molded plastic over glass passivated chip
- Terminals: Solder plated, Solderable per MIL-STD-750, method 2026
- Polarity: Color band denotes cathode end
- Weight: 0.007ounce, 0.25 gram

### SMC/DO-214AB



Unit: inch (mm)

### Rating 25 °C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOLS	GS3A	GS3B	GS3D	GS3G	GS3J	GS3K	GS3M	UNITS
Marking Code	MARK	S3A	S3B	S3D	S3G	S3J	S3K	S3M	N/A
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	100.0							A
Maximum instantaneous forward voltage at 3.0A	VF	1.15							V
Maximum DC reverse current TA=25-C at rated DC blocking voltage TA=100-C	IR	10.0 250.0							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:

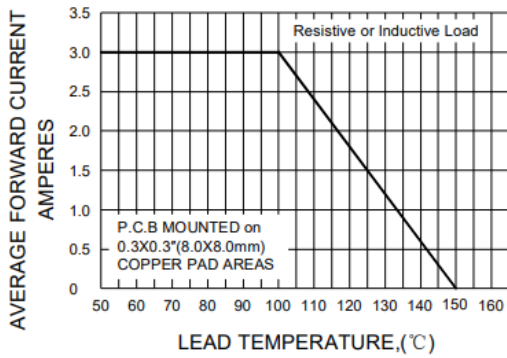
1. Reverse recovery test conditions: IF =0.5A, IR =1.0A, Irr =0.25A
2. Measured at 1.0MHz and applied reverse voltage of 4.0 Volts



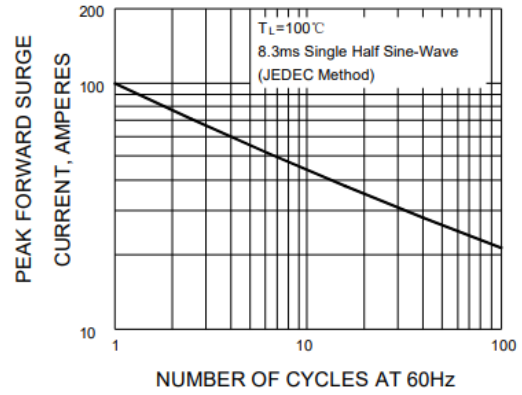
# GS3A THUR GS3M

## Rating And Characteristic Curves

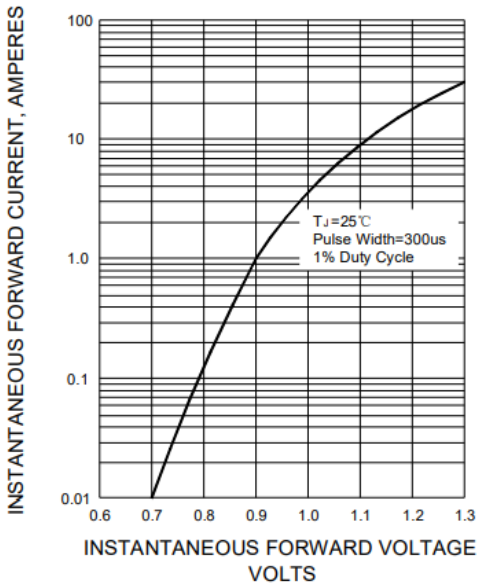
F1G.1-FORWARD CURRENT DERATING CURVE



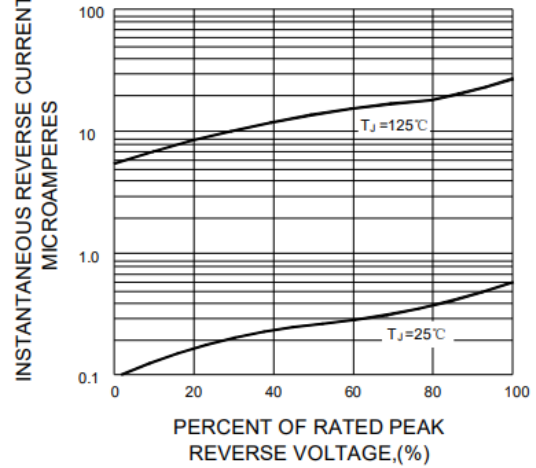
F1G.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



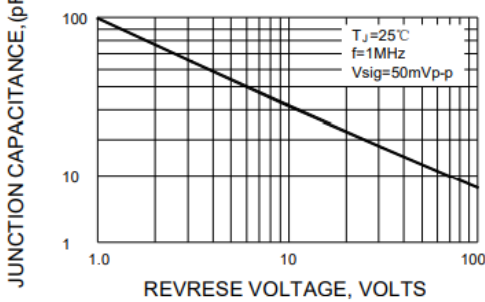
F1G.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



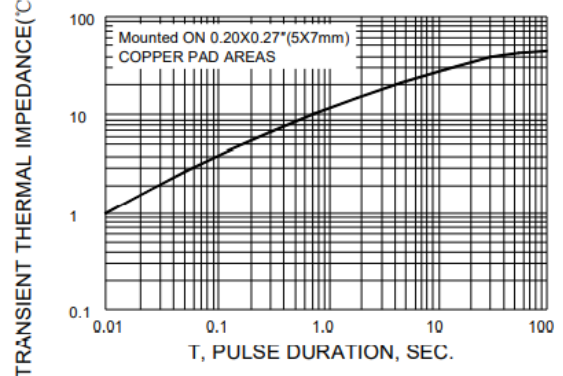
F1G.4-TYPICAL REVERSE CHARACTERISTICS



F1G.5-TYPICAL JUNCTION CAPACITANCE



F1G.6-TYPICAL TRANSIENT THERMAL IMPEDANCE



## **Important Notice and Disclaimer**

DOESHARE has used reasonable care in preparing the information included in this document, but DOESHARE does not warrant that such information is error free. DOESHARE assumes no liability whatsoever for any damages incurred by you resulting from errors in or omissions from the information included herein.

DOESHARE no warranty, representation or guarantee regarding the documents, circuits and products specification, DOESHARE reservation rights to make changes for any documents, products, circuits and specifications at any time without notice.

Purchasers are solely responsible for the choice, selection and use of the DOESHARE products and services described herein, and DOESHARE assumes no liability whatsoever relating to the choice, selection or use of the products and services described herein.

No license, express or implied, by implication or otherwise under any intellectual property rights of DOESHARE.

Resale of DOESHARE products with provisions different from the statements and/or technical features set forth in this document shall immediately void any warranty granted by DOESHARE for the DOESHARE product or service described herein and shall not create or extend in any manner whatsoever, any liability of DOESHARE.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for* [Diodes - General Purpose, Power, Switching category:](#)

*Click to view products by* [Doeshare manufacturer:](#)

Other Similar products are found below :

[MMBD3004S-13-F](#) [RD0306T-H](#) [BAV17-TR](#) [BAV19-TR](#) [1N3611](#) [NTE156A](#) [NTE574](#) [NTE6244](#) [1SS181-TP](#) [1SS193,LF](#) [1SS400CST2RA](#)  
[SDAA13](#) [SHN2D02FUTW1T1G](#) [LS4151GS08](#) [1N4449](#) [1N456A](#) [1N4934-E3/73](#) [1N914B](#) [1N914BTR](#) [1SS226-TP](#) [RFUH20TB3S](#)  
[D291S45T](#) [BAV300-TR](#) [BAW56DWQ-7-F](#) [BAW75-TAP](#) [MM230L-CAA](#) [IDW40E65D1](#) [JAN1N3600](#) [LL4151-GS18](#) [053684A](#)  
[SMMSD4148T3G](#) [707803H](#) [NSVDAN222T1G](#) [CDSZC01100-HF](#) [LL4150-M-08](#) [1N4454-TR](#) [BAV199E6433HTMA1](#) [BAS28-7](#)  
[BAW56HDW-13](#) [BAS28 TR](#) [VS-HFA04SD60STR-M3](#) [NSVM1MA152WKT1G](#) [RGP30D-E3/73](#) [BAV99TQ-13-F](#) [BAS21DWA-7](#)  
[BAV99HDW-13](#) [NTE6250](#) [NTE582-4](#) [NTE582-6](#) [MMDB30-E28X](#)