

GS5A THUR GS5M

GS5A THUR GS5M 5.0 AMP SURFACE MOUNT SILICON RECTIFIERS

General description

5.0 AMP SURFACE MOUNT SILICON RECTIFIERS

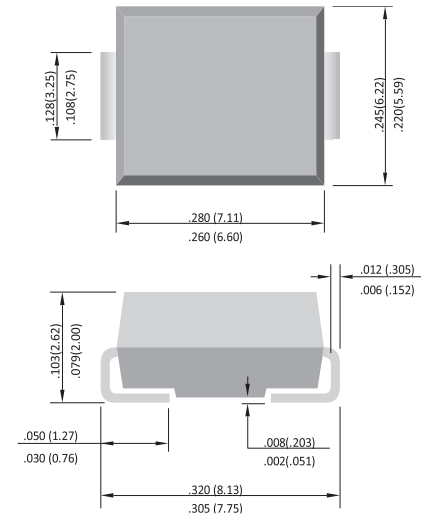
FEATURES

- 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: 0.008ounce, 0.217 gram

SMC/DO-214AB



Unit: inch (mm)

Rating 25 °C ambient temperature unless otherwise specified.

TYPE NUMBER	SYMBOLS	GS5A	GS5B	GS5D	GS5G	GS5J	GS5K	GS5M	UNITS	
Marking Code	MARK	S5A	S5B	S5D	S5G	S5J	S5K	S5M	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)	5.0								A
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	120.0								A
Maximum instantaneous forward voltage at 3.0A	VF	1.0								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	120.0								pF
Typical thermal resistance (NOTE 2)	RθJA	80								°C/W
Operating junction and storage temperature range	TJ,TSTG	-55 to +150								°C

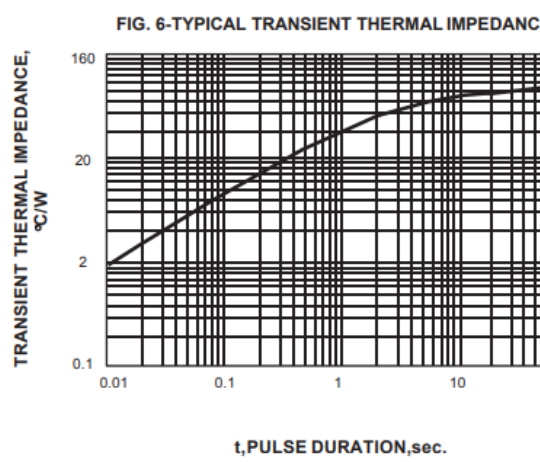
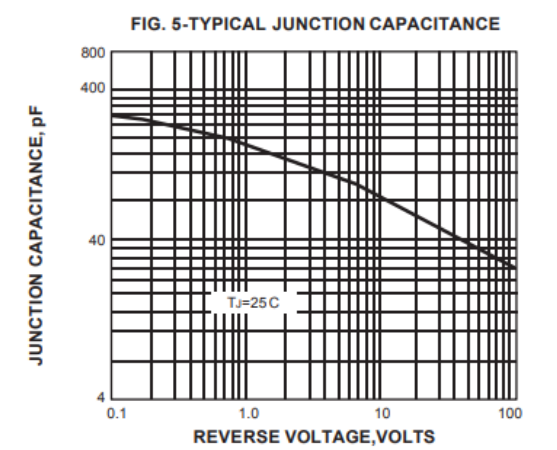
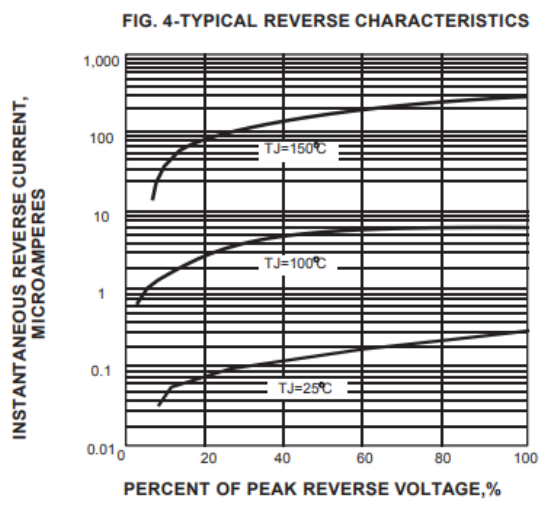
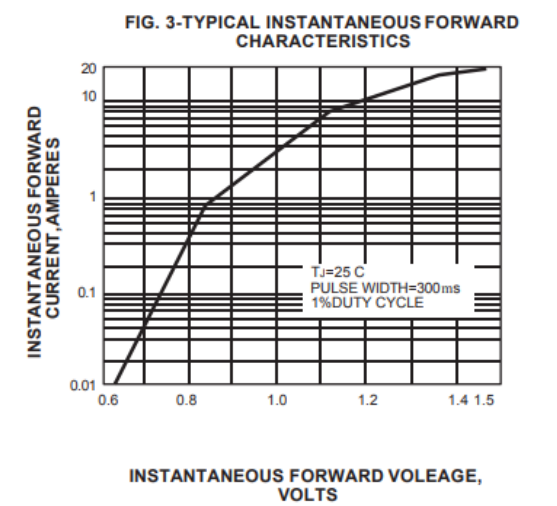
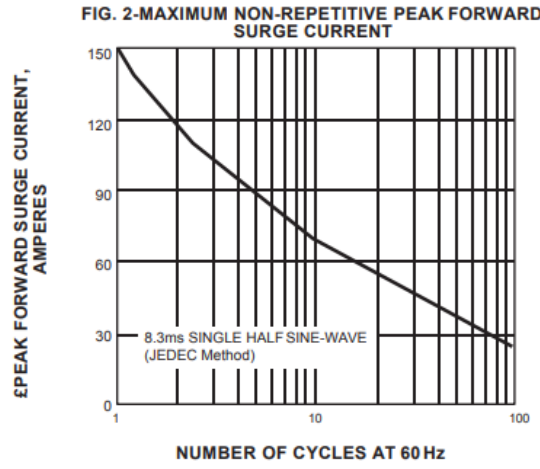
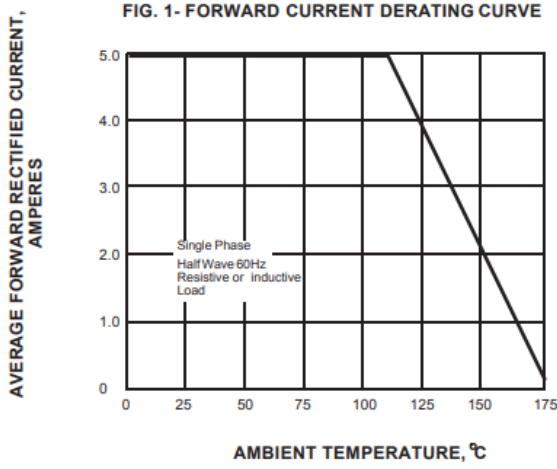
Note:

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

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Rating And Characteristic Curves



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