

GS3AB - GS3MB

SURFACE MOUNT SILICON RECTIFIER DIODES

VOLTAGE RANGE: 50 - 1000V CURRENT: 3.0 A

Features

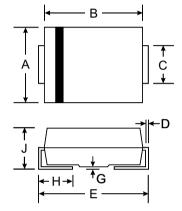
- Glass Passivated Die Construction
- Ideally Suited for Automatic Assembly
- Low Forward Voltage Drop
- Low Power Loss
- Built-in Strain Relief
- Plastic Case Material has UL Flammability Classification Rating 94V-O

Mechanical Data

- Case: SMB/DO-214AA, Molded Plastic
- Terminals: Solder Plated, Solderable per MIL-STD-750, Method 2026
- Polarity: Cathode Band or Cathode Notch
- Marking: Type Number
- Weight: 0.093 grams (approx.)







SMB(DO-214AA)							
Dim	Min	Max					
Α	3.30	3.94					
В	4.06	4.70					
С	1.91	2.21					
D	0.15	0.31					
E	5.00	5.59					
G	0.10	0.20					
Н	0.76	1.52					
J	2.00	2.62					
All Dimensions in mm							

Maximum Ratings and Electrical Characteristics T_A = 25°C unless otherwise specified

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

Characteristic	:	Symbol	GS3AB	GS3BB	GS3DB	GS3GB	GS3JB	GS3KB	GS3MB	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	50	100	200	400	600	800	1000	V
RMS Reverse Voltage		VR(RMS)	35	70	140	280	420	560	700	V
Average Rectified Output Curren	t @T _L = 75°C	lo	3.0				•	Α		
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)		IFSM	100							А
Forward Voltage	@I _F = 3.0A	VFM	1.20						V	
Peak Reverse Current At Rated DC Blocking Voltage	@T _A = 25°C @T _A = 125°C	lгм	5.0 250						μΑ	
Reverse Recovery Time (Note 1)		trr				2.5				μS
Typical Junction Capacitance (No	ote 2)	Cj				60				pF
Typical Thermal Resistance (Note 3)		$R_{ heta}JL$	13						°C/W	
Operating and Storage Temperature Range		Тj, Tsтg	-65 to +150							°C

Note: 1. Measured with $I_F = 0.5A$, $I_R = 1.0A$, $I_{rr} = 0.25A$,

- 2. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.
- 3. Mounted on P.C. Board with 8.0mm2 land area.



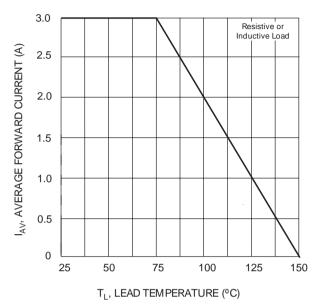


Fig. 1 Forward Current Derating Curve

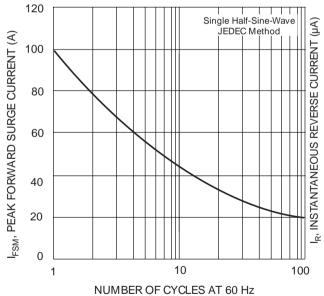


Fig. 3 Forward Surge Current Derating Curve

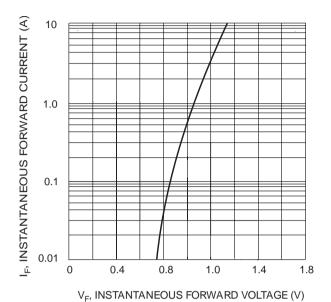
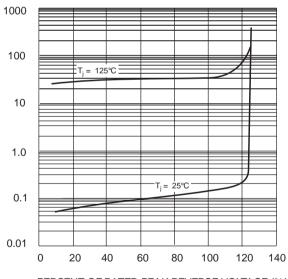


Fig. 2 Typical Forward Characteristics



PERCENT OF RATED PEAK REVERSE VOLTAGE (%)
Fig. 4 Typical Reverse Characteristics