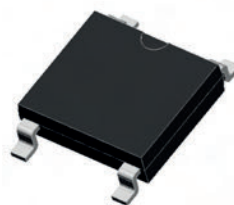


GSLB202S thru GSLB2010S

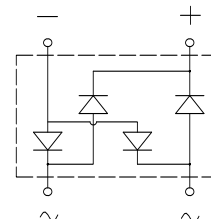
Surface Mount Glass Passivated Bridge Rectifiers
Reverse Voltage 200V to 1000V Forward Current 2.0A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- Rating to 1000V PRV
- Ideal for printed circuit board
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/ 65/EU



ABF



Schematic Diagram

Mechanical Data

- Case: ABF molded plastic body
- Epoxy: UL94V-0 rate flame retardant
- Terminals: Plated leads solderable per MIL-STD-750, method 2026
- Mounting position: Any

Maximum Ratings and Electrical Characteristics

(Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.)

Parameters		Symbols	GSLB 202S	GSLB 204S	GSLB 206S	GSLB 208S	GSLB 2010S	Units
Maximum Recurrent Peak Reverse Voltage		V _{RRM}	200	400	600	800	1000	V
Maximum RMS Voltage		V _{RMS}	140	280	420	560	700	V
Maximum DC Blocking Voltage		V _{DC}	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		I _(AV)	2.0					A
Peak Forward Surge Current 8.3ms Single Half Sine-Wave Superimposed on Rated Load (JEDEC Method)		I _{FSM}	60					A
Maximum Instantaneous Forward Voltage at 2.0A DC		V _F	1.1					V
Rating for Fusing (t<8.3ms)		I ² t	15					A ² s
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _A =25°C	I _R	10					μA
	T _A =125°C		500					
Typical Junction Capacitance ¹		C _J	16					pF
Typical Thermal Resistance, Junction-Ambient ²		R _{θJA}	62					°C/W
Typical Thermal Resistance, Junction-Case ²		R _{θJC}	25					°C/W
Operating Junction and Storage Temperature Range		T _J , T _{STG}	-55 to +150					°C

Notes:

- Measured at 1MHz and applied reverse voltage of 4.0 Volts.
- Thermal resistance junction to ambient.

Ratings and Characteristics Curves

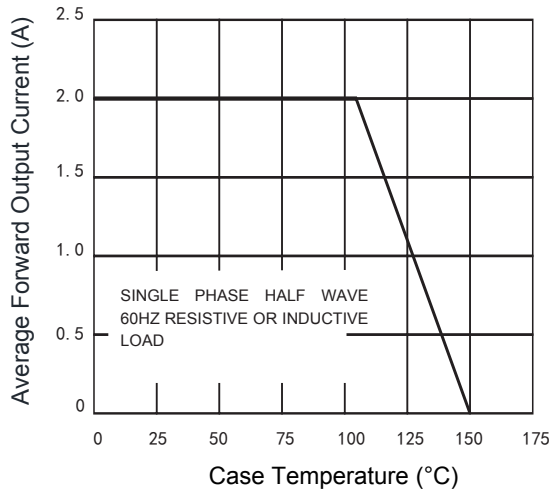


Figure 1. Typical Forward Current Derating Curve

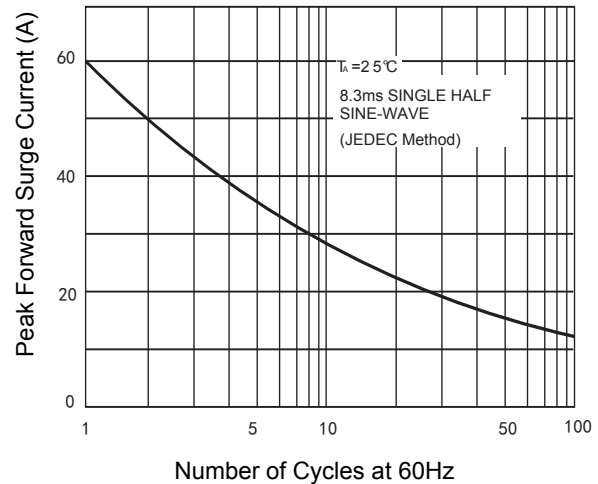


Figure 2. Maximum Non-Repetitive Forward Surge Current

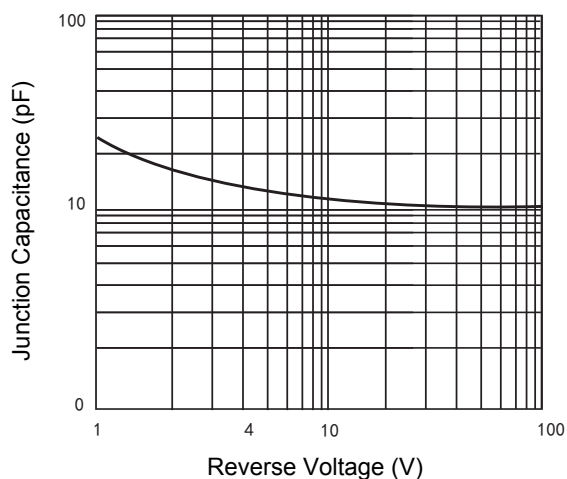


Figure 3. Typical Junction Capacitance

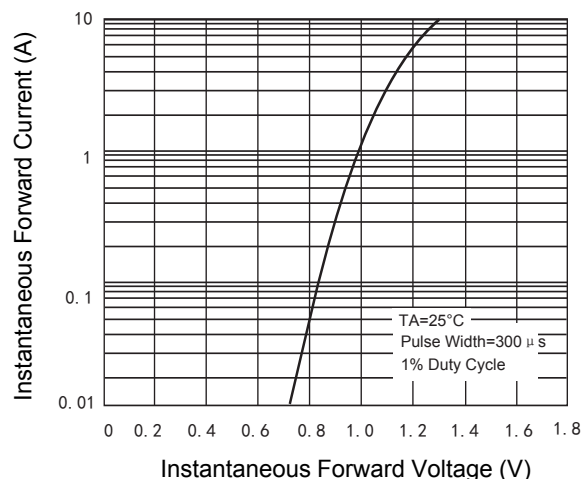


Figure 4. Typical Forward Characteristics

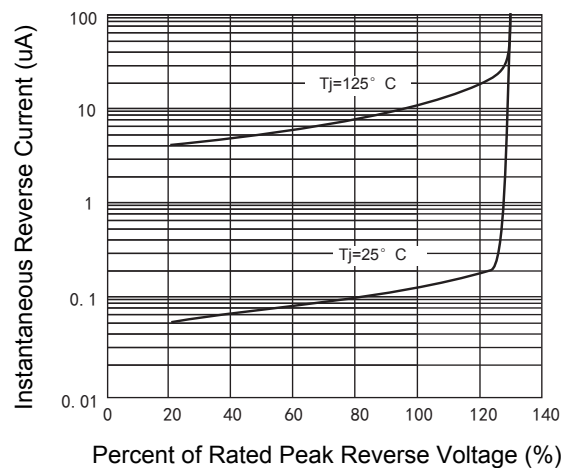
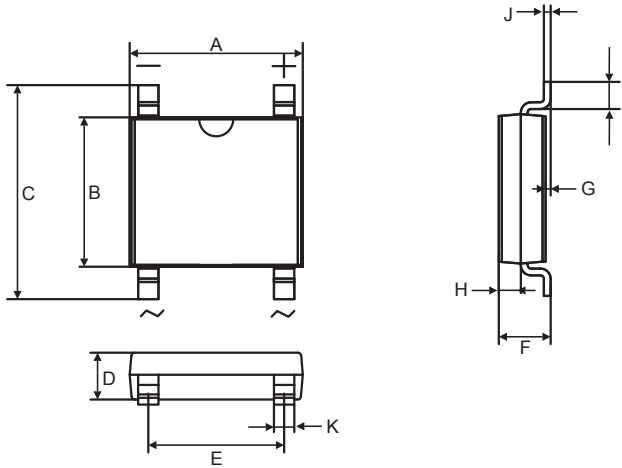


Figure 5. Typical Reverse Characteristics

GSLB202S thru GSLB2010S

Surface Mount Glass Passivated Bridge Rectifiers
Reverse Voltage 200V to 1000V Forward Current 2.0A

Package Outline Dimensions (ABF)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
A	4.80	5.40	0.189	0.213
B	4.20	4.60	0.165	0.181
C	6.00	6.80	0.236	0.268
D	1.22	1.50	0.048	0.059
E	3.80	4.40	0.150	0.173
F	1.20	1.50	0.047	0.059
G	0.05	0.20	0.002	0.008
H	0.37	0.47	0.015	0.019
I	0.40	0.80	0.016	0.031
J	0.15	0.25	0.006	0.010
K	0.50	0.85	0.020	0.033

Order Information

Device	Package	Marking	Carrier	Quantity
GSLB202S	ABF	LB202S	Tape & Reel	3,000 Pcs / Reel
GSLB204S	ABF	LB204S	Tape & Reel	3,000 Pcs / Reel
GSLB206S	ABF	LB206S	Tape & Reel	3,000 Pcs / Reel
GSLB208S	ABF	LB208S	Tape & Reel	3,000 Pcs / Reel
GSLB2010S	ABF	LB2010S	Tape & Reel	3,000 Pcs / Reel

For more information, please contact us at: inquiry@goodarksemi.com