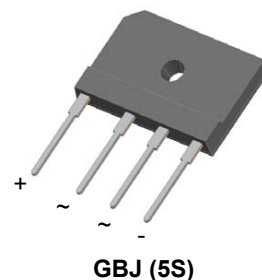


GSGBJ3501 thru GSGBJ3510

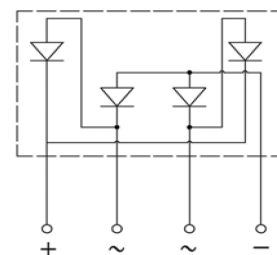
Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 100V to 1000V Forward Current 35A

Features

- Plastic package has Underwriters Laboratory Flammability Classification 94V-0
- Glass passivated chip junction
- High current capability
- Low forward voltage drop
- High temperature soldering guaranteed: 260°C/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



GBJ (5S)



Schematic Diagram

Mechanical Data

- Case: GBJ(5S) Molded plastic body
- 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	GSGBJ 3501	GSGBJ 3502	GSGBJ 3504	GSGBJ 3506	GSGBJ 3508	GSGBJ 3510	Units
Maximum Recurrent Peak Reverse Voltage		V_{RRM}	100	200	400	600	800	1000	V
Maximum RMS Voltage		V_{RMS}	70	140	280	420	560	700	V
Maximum DC Blocking Voltage		V_{DC}	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current		$I_{(AV)}$	35.0						A
Peak Forward Surge Current 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)		I_{FSM}	350						A
Rating for Fusing ($t < 8.3ms$)		I^2t	508						A ² S
Maximum Instantaneous Forward Voltage at 17.5A DC		V_F	1.1						V
Maximum DC Reverse Current at Rated DC Blocking voltage	$T_A = 25^\circ C$	I_R	10						μA
	$T_A = 125^\circ C$		500						μA
Typical Thermal Resistance		$R_{\theta JA}$	22						$^\circ C/W$
		$R_{\theta JC}$	1.0						$^\circ C/W$
Operating Temperature Range		T_J	-55 to +150						$^\circ C$
Storage Temperature Range		T_{STG}	-55 to +150						$^\circ C$

Ratings and Characteristics Curves

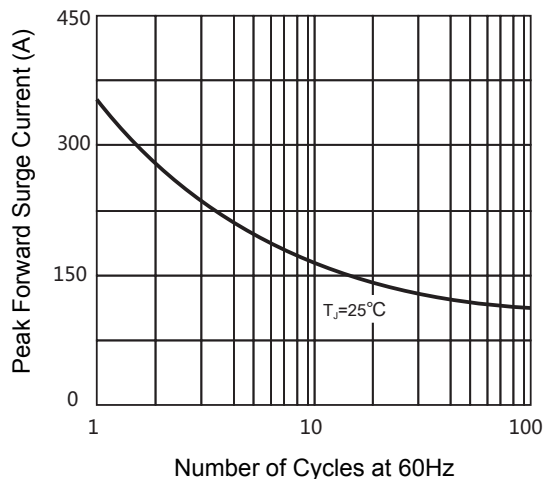


Figure 1. Maximum Forward Surge Current

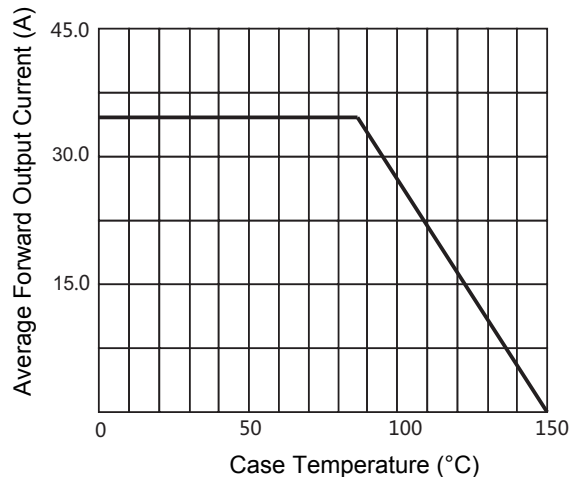


Figure 2. Forward Current Derating Curve

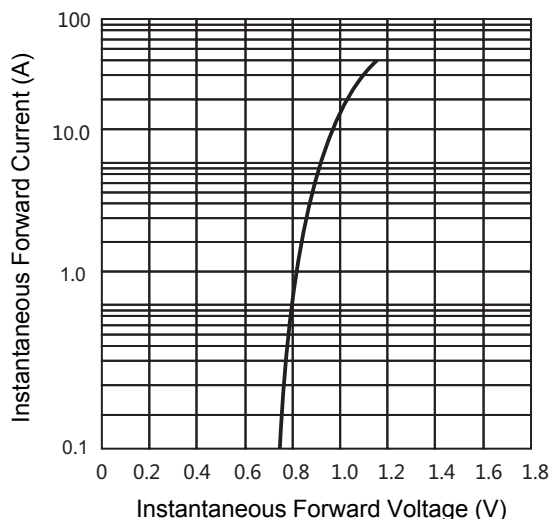


Figure 3. Typical Forward Characteristics

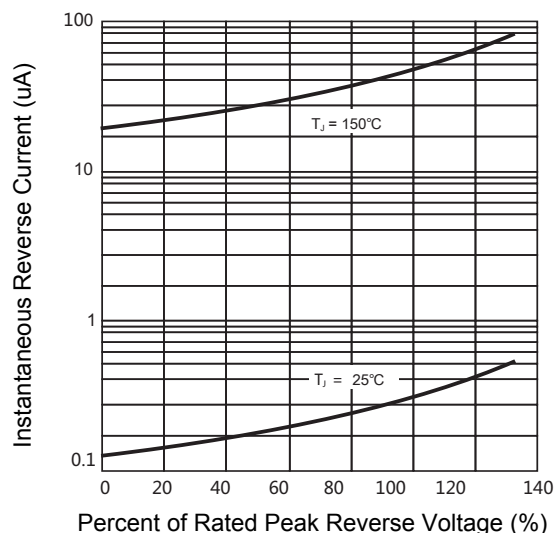


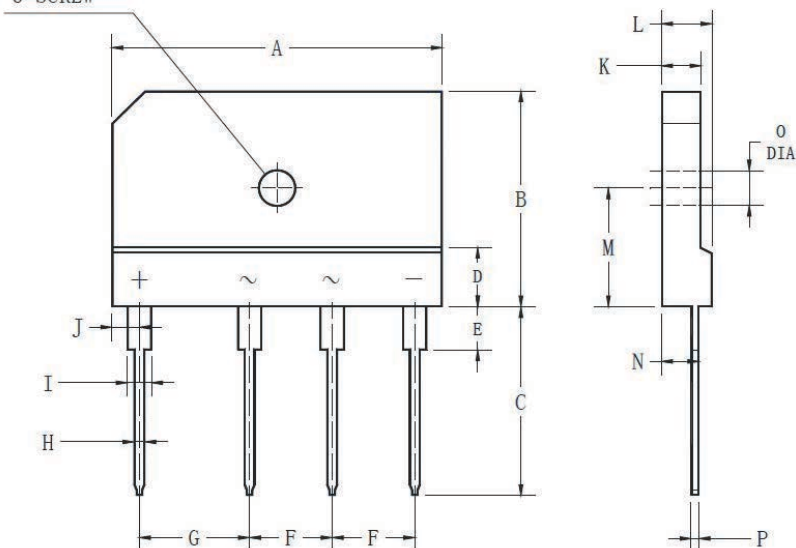
Figure 4. Typical Reverse Characteristics

GSGBJ3501 thru GSGBJ3510

Glass Passivated Single-Phase Bridge Rectifiers
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Package Outline Dimensions GBJ (5S)

HOLE FOR NO.
6 SCREW



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A	29.700	30.300	1.169	1.193
B	19.700	20.300	0.776	0.799
C	17.000	18.000	0.669	0.709
D	4.800	5.800	0.189	0.228
E	3.800	4.200	0.150	0.165
F	7.300	7.700	0.287	0.303
G	9.800	10.200	0.386	0.402
H	0.900	1.100	0.035	0.043
I	2.000	2.400	0.079	0.094
J	2.300	2.700	0.091	0.106
K	3.400	3.800	0.134	0.150
L	4.400	4.800	0.173	0.189
M	10.800	11.200	0.425	0.441
N	3.400	3.900	0.134	0.153
O	3.100	3.400	0.122	0.134
P	0.600	0.800	0.024	0.031

GSGBJ3501 thru GSGBJ3510

Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 100V to 1000V Forward Current 35A

Order Information

Device	Package	Marking	Carrier	Quantity
GSGBJ3501	GBJ(5S)	GBJ3501	Tube	15 pcs / Tube
GSGBJ3502	GBJ(5S)	GBJ3502	Tube	15 pcs / Tube
GSGBJ3504	GBJ(5S)	GBJ3504	Tube	15 pcs / Tube
GSGBJ3506	GBJ(5S)	GBJ3506	Tube	15 pcs / Tube
GSGBJ3508	GBJ(5S)	GBJ3508	Tube	15 pcs / Tube
GSGBJ3510	GBJ(5S)	GBJ3510	Tube	15 pcs / Tube