



Reverse Voltage 1600V Forward Current 10.0A

Bridge Rectifier Drward Current 10 0A

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 2015/863/EU



Package: GBJ

Schematic Diagram

Mechanical Data

Case: GBJ molded plastic body

■ Terminals: Plated leads solderable per MIL-STD-750, method 2026

Mounting position: Any

Applications

Used in AC/DC bridge full wave rectification for SMPS, lighting ballaster, adapter, charger, home appliances, office equipment, and telecommunication applications.

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%.)

Para	Symbols	GSGBJ1016	Unit		
Maximum Repetitive Peak Reverse Voltage		V_{RRM}	1600	V	
Maximum RMS Voltage		V _{RMS} 1120		V	
Maximum DC Blocking Voltage	V_{DC}	1600	V		
Maximum Average Forward Rectified Current I _{F(AV)} 10.0				А	
Peak Forward Surge Current 8. Superimposed on Rated Load (I _{FSM}	160	А		
Rating for Fusing (t=8.3ms)	l ² t	107	A ² S		
Maximum Instantaneous Forward Voltage at 5.0A DC		V _F	1.1	V	
Maximum DC Reverse Current at Rated DC Blocking Voltage	T _J =25°C		5	μА	
	T _J =125°C	I _R	100	μΑ	
Typical Thermal Resistance	Between Junction and Ambient, Without Heatsink	$R_{\theta JA}$	18	°C/W	
	Between Junction and Case, With Heatsink	$R_{ heta JC}$	2.0		
Operating Temperature Range		T _J -55 to +150		°C	
Storage Temperature Range		T _{STG}	-55 to +150	°C	

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Bridge Rectifier

Ratings and Characteristics Curves

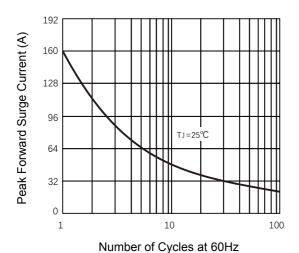


Figure 1. Maximum Forward Surge Current

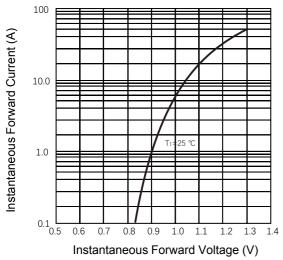


Figure 3. Typical Forward Characteristics

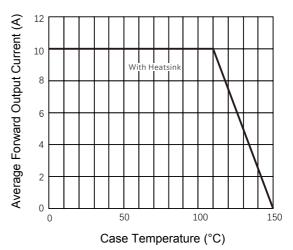
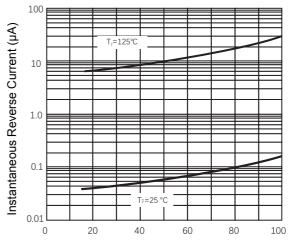


Figure 2. Forward Current Derating Curve

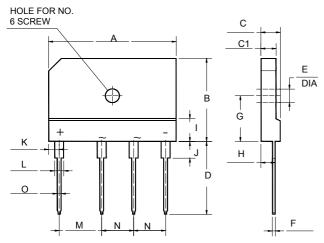


Percent of Rated Peak Reverse Voltage (%)

Figure 4. Typical Reverse Characteristics

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Package Outline Dimensions (GBJ)



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min.	Max.	Min.	Max.
А	29.70	30.30	1.169	1.193
В	19.70	20.30	0.776	0.800
С	4.40	4.80	0.173	0.189
C1	3.40	3.80	0.134	0.150
D	17.00	18.00	0.669	0.708
E	3.10	3.40	0.122	0.134
F	0.60	0.80	0.023	0.031
G	10.80	11.20	0.425	0.441
Н	3.40	3.90	0.134	0.153
I	4.80	5.80	0.189	0.228
J	3.80	4.20	0.150	0.165
K	2.30	2.70	0.096	0.106
L	2.00	2.40	0.078	0.094
M	9.80	10.20	0.386	0.402
N	7.30	7.70	0.287	0.303
0	0.90	1.10	0.035	0.043

Order Information

Device	Package	Marking	Carrier	Quantity
GSGBJ1016	GBJ	GBJ1016	Tube	15 pcs / Tube