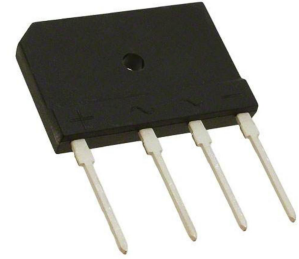


GBJ2002 - GBJ2010

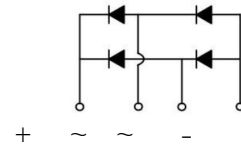
VOLTAGE RANGE	200 to 1000 Volts
CURRENT	20.0 Ampere


Features

- Glass passivated die construction
- Reverse Voltage - 200 to 1000Volts
- Ideal for printed circuit boards
- High surge current capability
- High temperature soldering guaranteed:
- 265°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3kg) tension
- Plastic material has U/L flammability classification 94V-0


Mechanical Data

- Case: Molded plastic case
- Terminals: Plated leads solderable per MIL-STD-750, Method 2026
- Polarity: Marked on Body
- Mounting position:Any
- specified.Single phase, half wave ,60Hz, resistive or inductive
- load.For capacitive load, derate current by 20%

Circuit

Bridge Type

TYPE	VRRM	VRSM
GBJ 2002	200V	300V
GBJ 2004	400V	500V
GBJ 2006	600V	700V
GBJ 2008	800V	900V
GBJ 2010	1000V	1100V

Maximum Ratings and Thermal Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Conditions	Values	Units
I(AV)	Maximum average forward output rectified current $T_c = 100^\circ\text{C}$	20	A
IFSM	Peak forward surge current single half sine-wave superimposed on rated load (JEDEC Method)	300	A
I^2t	Rating for fusing ($t < 10\text{ms}$)	565	A^2s
Visol	a.c.50HZ;r.m.s.;1min	2500	V
R θ JC	Maximum thermal resistance per leg (1)	1.5	$^\circ\text{C}/\text{W}$
TOR	Mounting Torque (Recommended torque:0.5 N.m)	0.8	N.m
T _j , TSTG	Operating Junction and storage temperature range	-55 to+150	$^\circ\text{C}$
Weight	Approximate Weight	7	g

Electrical Characteristics ($T_A = 25^\circ\text{C}$ unless otherwise noted)

Symbol	Conditions	Values	Units
VF	Maximum Instantaneous Forward Voltage per leg $I_{FM} = 10\text{A}$	1.1	V
IR	Maximum DC reverse current at rated DC blocking voltage per leg $T_A = 25^\circ\text{C}$ $T_A = 125^\circ\text{C}$	5.0 500	μA

Notes:

1. Junction to case with heatsink.
2. Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with #6 screw.



GBJ2002 THRU GBJ2010

VOLTAGE RANGE 200 to 1000 Volts
CURRENT 20.0 Ampere

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

FIG.1-FORWARD CURRENT DERATING CURVE

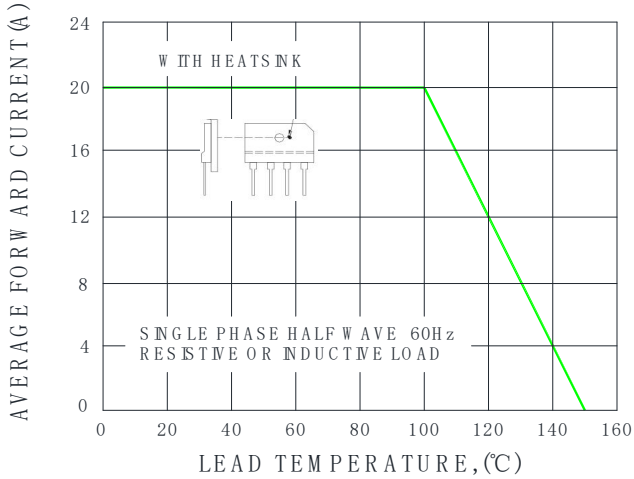


FIG.2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

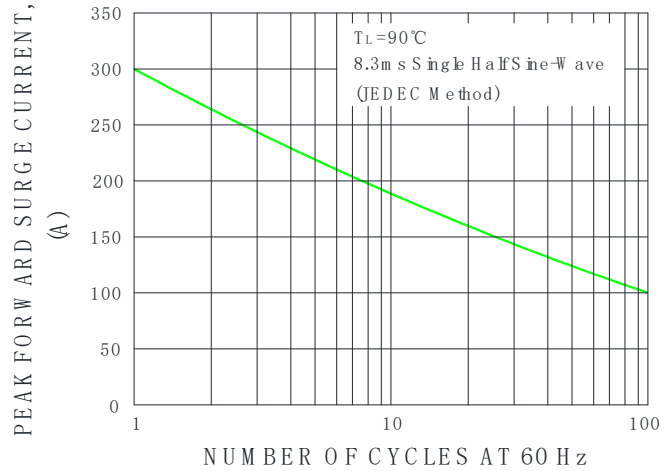


FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

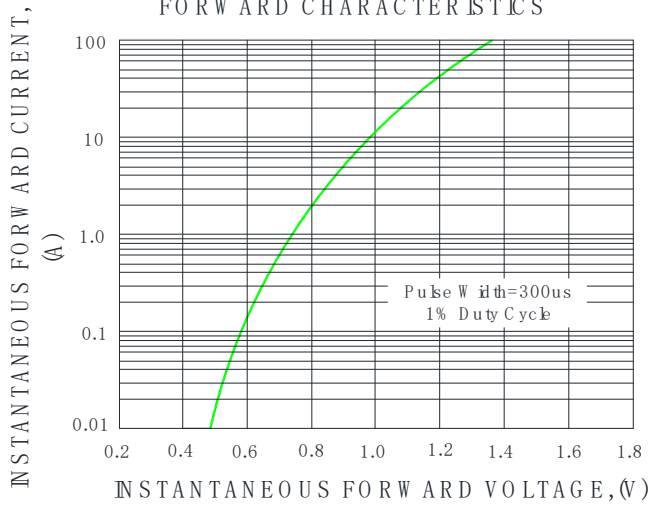


FIG.4-TYPICAL REVERSE CHARACTERISTICS

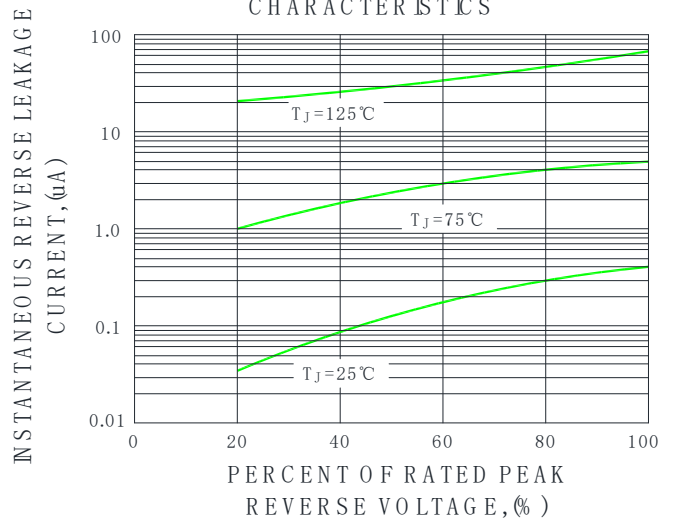
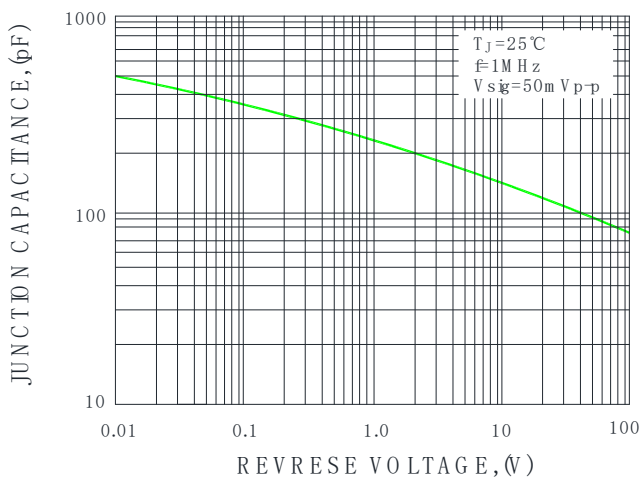


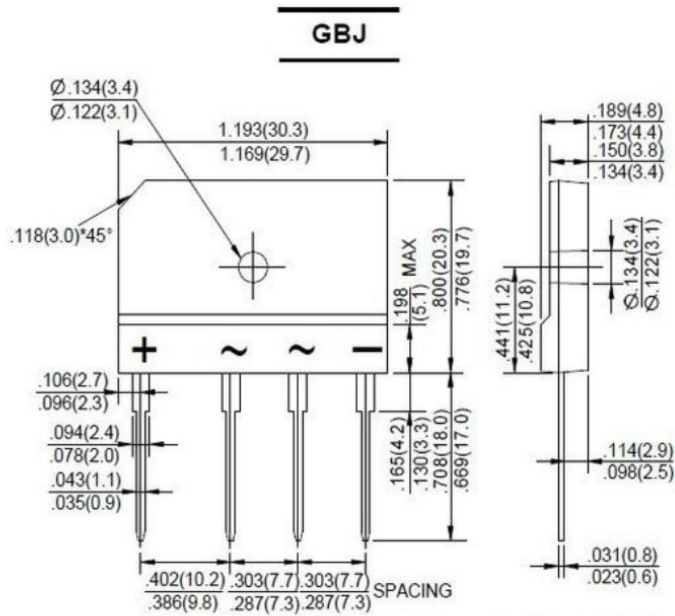
FIG.5-TYPICAL JUNCTION CAPACITANCE



GBJ2002 THRU GBJ2010

VOLTAGE RANGE 200 to 1000 Volts
 CURRENT 20.0 Ampere

Package Outline Dimensions in inches (millimeters)



Ordering Information (Example)

PREFERRED P/N	PACKING CODE	UNIT WEIGHT(g)	MINIIMUM PACKAGE(pcs)	INNER BOX QUANTITY(pcs)	OUTER CARTON QUANTITY(pcs)	DELIVERY MODE
GBJ	B1	Approximate 3.96	20	1000	2000	TUBE