



## **GBJ20005 THRU GBJ2010**

### **Glass Passivated Bridge Rectifiers**

# Reverse Voltage - 50 to 1000 Volts Forward Current - 20 Amperes

#### **Features**

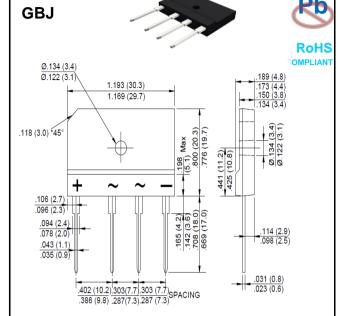
- Glass passivated chip
- Low forward voltage drop
- Ideal for printed circuit board
- High surge current capability
- AEC-Q101 qualified

#### **Mechanical Data**

- Polarity: Symbol marked on body
- Mounting position: Any

#### **Applications**

 General purpose use in AC/DC bridge full wave rectification, for SMPS, lighting ballaster, adapter, etc.



Package Outline Dimensions in Inches (Millimeters)

#### **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%.

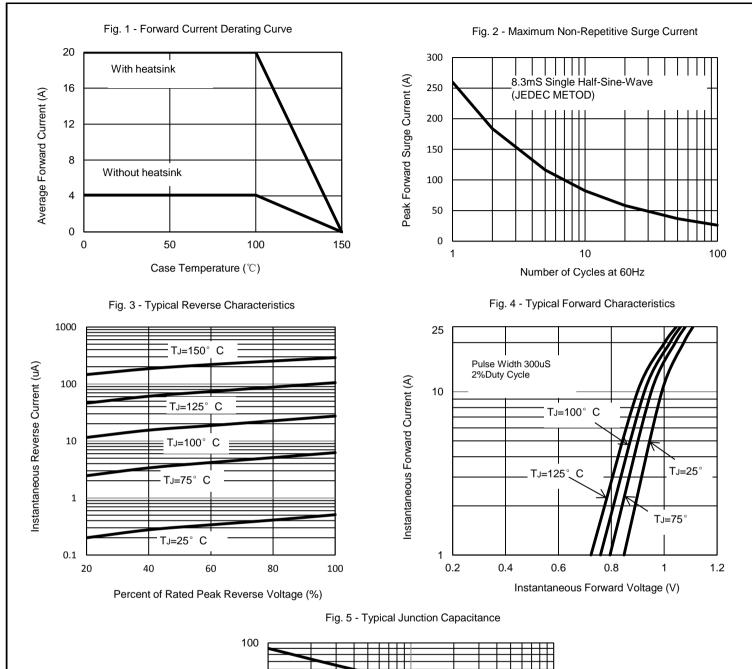
Symbol	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	GBJ	Unit
Cymbol	20005	2001	2002	2004	2006	2008	2010	
VRRM	50	100	200	400	600	800	1000	<b>V</b>
VRMS	35	70	140	280	420	560	700	V
VDC	50	100	200	400	600	800	1000	V
I(AV)	20.0						Α	
Irou	200							А
IFSM 260								
l <sup>2</sup> t	280.5						$A^2s$	
VF	1.0						V	
IR 5.0 500								
								μA
CJ	60						pF	
Reja	4.5							
Rejc	0.8						°C/W	
Røjl	1.5							
TJ	-55 to +150						$^{\circ}$	
Тѕтс	-55 to +150							$^{\circ}$
	VRMS VDC I(AV) IFSM I <sup>2</sup> t VF IR CJ Reja Rejc Rejl TJ	Symbol 20005  VRRM 50  VRMS 35  VDC 50  I(AV)  IFSM  I²t  VF  IR  CJ  ReJA  ReJC  ReJL  TJ	Symbol         20005         2001           VRRM         50         100           VRMS         35         70           VDC         50         100           I(AV)         IFSM           I²t         VF           IR         CJ           ReJA         ReJC           ReJL         TJ	Symbol         20005         2001         2002           VRRM         50         100         200           VRMS         35         70         140           VDC         50         100         200           I(AV)         IFSM           I²t         VF           IR         CJ           ReJA         ReJC           ReJL         TJ	Symbol         20005         2001         2002         2004           VRRM         50         100         200         400           VRMS         35         70         140         280           VDC         50         100         200         400           I(AV)         20.0           IFSM         260           I*2t         280.5           VF         1.0           IR         500           CJ         60           ReJA         4.5           ReJC         0.8           RBJL         1.5           TJ         -55 to +15	Symbol         20005         2001         2002         2004         2006           VRMM         50         100         200         400         600           VRMS         35         70         140         280         420           VDC         50         100         200         400         600           I(AV)         20.0         200         400         600           IFSM         260         280.5         1.0         5.0         500           IR         500         500         60         4.5         60         4.5         60         4.5         60	Symbol         20005         2001         2002         2004         2006         2008           VRMM         50         100         200         400         600         800           VRMS         35         70         140         280         420         560           VDC         50         100         200         400         600         800           I(AV)         20.0         20.0         20.0         80	Symbol         20005         2001         2002         2004         2006         2008         2010           VRRM         50         100         200         400         600         800         1000           VRMS         35         70         140         280         420         560         700           VDC         50         100         200         400         600         800         1000           IFSM         260         20.0

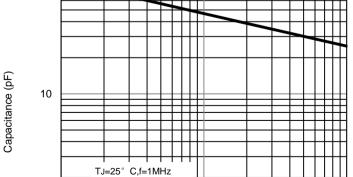
Notes: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V DC.

- 2.Device mounted on 300mm\*300mm\*1.6mm Cu plate heatsink.
- 3. The typical data above is for reference only

GBJ20\*-U-00-A001 Rev. 9, 22-Apr-2019







10 Reverse Voltage (V) 100

The curve above is for reference only.

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Rev. 2, 16-Mar-2017