

### **GBJ20005T THRU GBJ2010T**

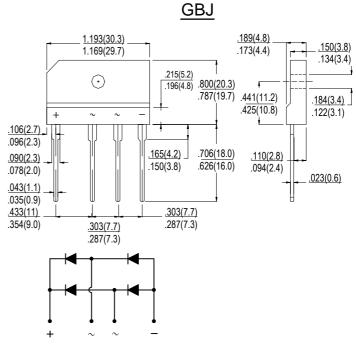
SINGLE PHASE 20.0 AMP GLASS PASSIVATED BRIDGE RECTIFIER

#### **Features**

- · Glass passivated die construction
- · Low forward voltage drop
- · High current capability
- · High surge current capability
- Plastic material-UL flammability 94V-0

#### **Mechanical Data**

- · Case: Molded plastic, GBJ
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: As Marked on Case
- Mounting Position: Any
- · Marking: Type Number
- Lead Free: For RoHS / Lead Free Version



dimensions in inches and (millimeters)

### **Maximum Ratings and Electrical Characteristics**

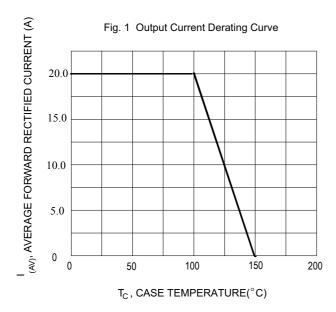
Rating at 25°C ambient temperature unless otherwise specified. Single Phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

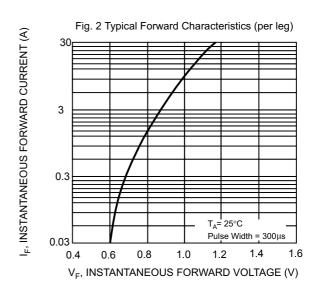
TYPE NUMBER	SYMBOL	GBJ 20005T	GBJ 2001T	GBJ 2002T	GBJ 2004T	GBJ 2006T	GBJ 2008T	GBJ 2010T	UNITS
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage	Vrrm Vrwm	50	100	200	400	600	800	1000	V
DC Blocking Voltage	VDC								
RMS Reverse Voltage	VRMS	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@T <sub>C</sub> =90 ℃	IF(AV)	20.0							Α
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	Iғsм	320							А
I <sup>2</sup> t Rating for Fusing (t < 8.3ms)	l²t	424.96							A <sup>2</sup> s
Forward Voltage per element @IF=10A @IF=20A	VFM	1.0 1.1							V
Peak Reverse Current @TA = 25 ℃ At Rated DC Blocking Voltage @TA = 125 ℃	lr	5.0 500							uA
Typical Junction Capacitance per leg	Сл	65							pF
Between junction and ambient, Without heatsink	RөJA	22							°C/W
Between junction and case, With heatsink	Rejc	1.5							CIVV
Operating and Storage Temperature Range	Т <sub>J</sub> ,Тsтg	-55to+150							$^{\circ}$

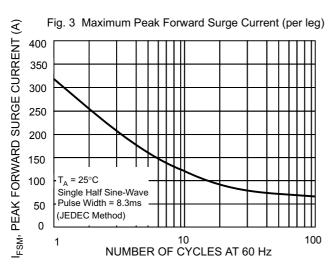
Note: 1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.

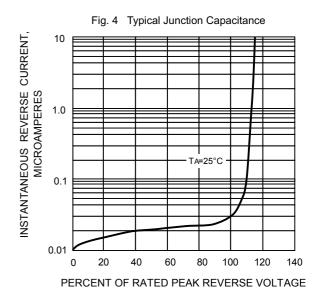


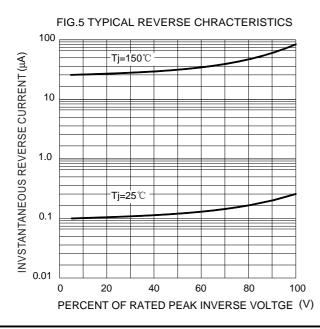
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