



GBJ15005A THRU GBJ1510A

Single Phase 15.0AMP Glass Passivated Bridge Rectifier

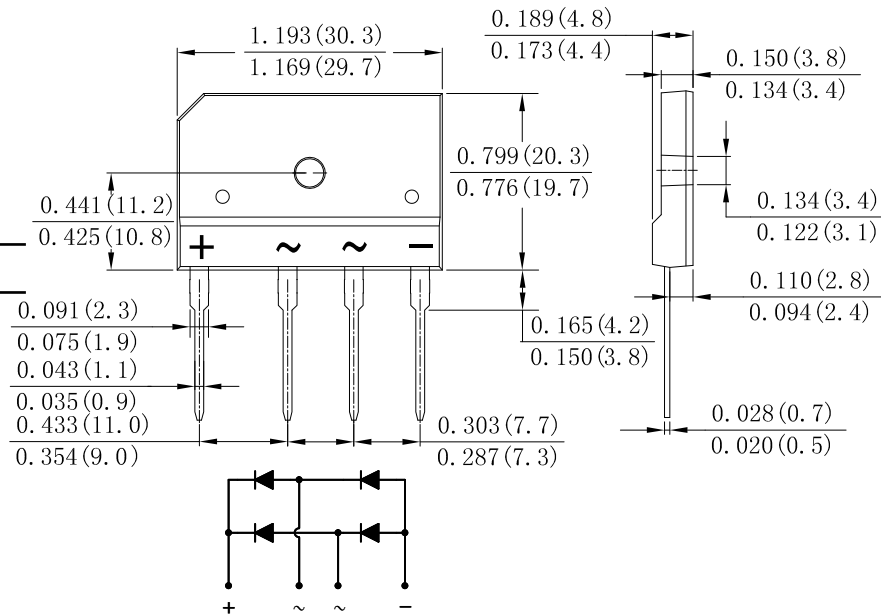
Features

- 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

Case: GBJ



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 15005A	GBJ 1501A	GBJ 1502A	GBJ 1504A	GBJ 1506A	GBJ 1508A	GBJ 1510A	UNITS
Peak Repetitive Reverse Voltage	V_{RRM}								
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V
DC Blocking Voltage	V_{DC}								
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Average Rectified Output Current (Note 1)@ $T_c=90^\circ C$	IF(AV)	15.0							A
Non-Repetitive Peak Forward Surge Current 8.3ms Single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	240							A
I ² t Rating for Fusing (t < 8.3ms)	I ² t	239.04							A ² s
Forward Voltage per element @IF=7.5A @IF=15A	V_{FM}	1.0 1.1							V
Peak Reverse Current @ $T_J=25^\circ C$ At Rated DC Blocking Voltage @ $T_J=125^\circ C$	I_R	5.0 200							uA
Dielectric Strength	V_{ids}	2500							V
The proposed installation torque Max torque	Tor	Typ. 5.0 Max 8.0							Kgf.cm
Typical Junction Capacitance (Note 2)	C_J	65							pF
Between junction and ambient, Without heatsink	$R_{\theta JA}$	12							°C/W
Between junction and case, With heatsink	$R_{\theta JC}$	1.5							
Operating and Storage Temperature Range	T_J, T_{STG}	-55to+150							°C

Note: 1. Unit case mounted on aluminum plate heatsink

2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C..



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Fig. 1 Forward Current Derating Curve

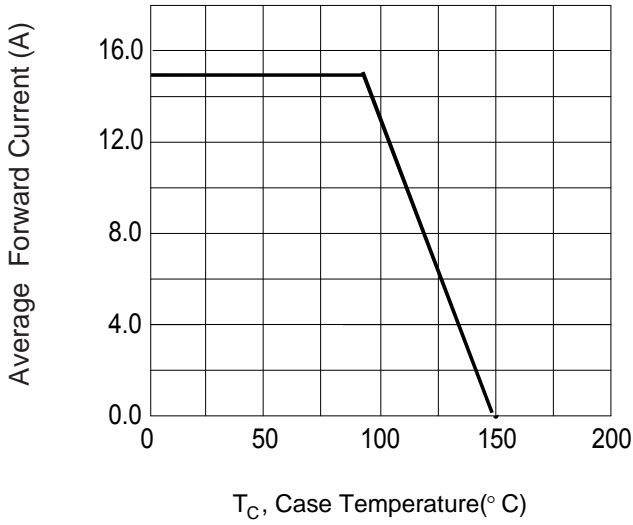


Fig. 2 Typ. Forward Characteristics

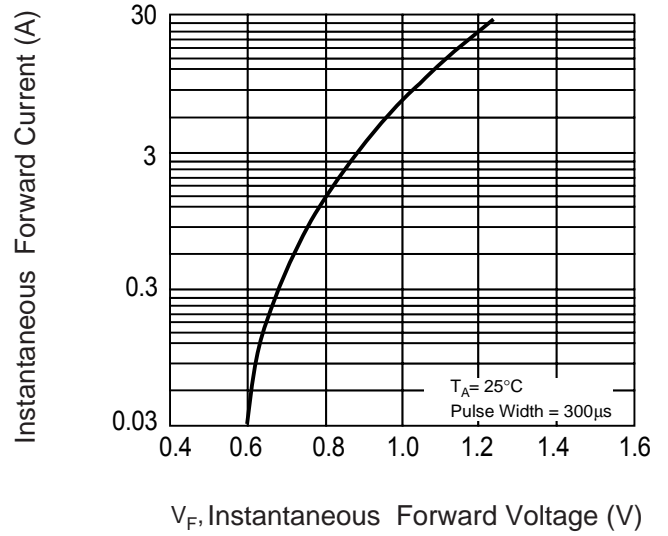


Fig.3 Maximum Peak Forward Surge Current

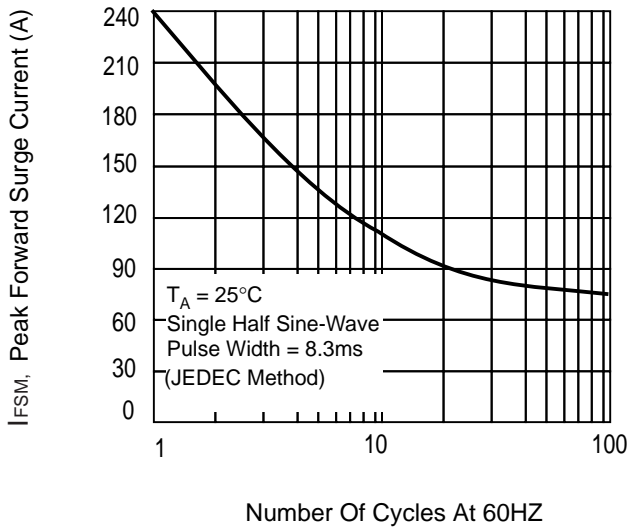


Fig. 4 Typical Junction Capacitance

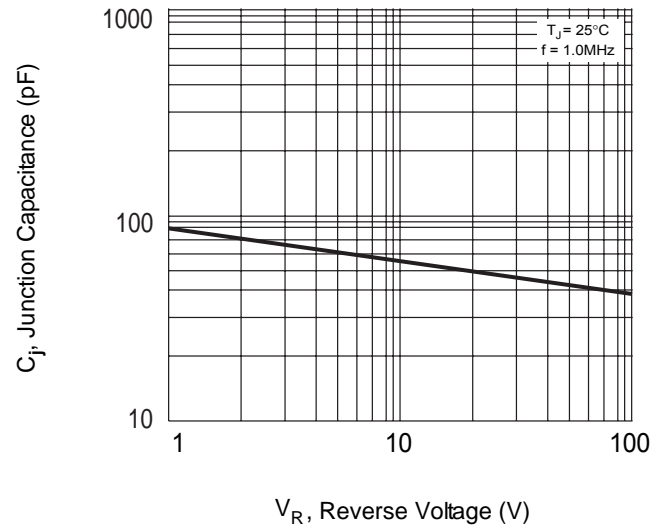
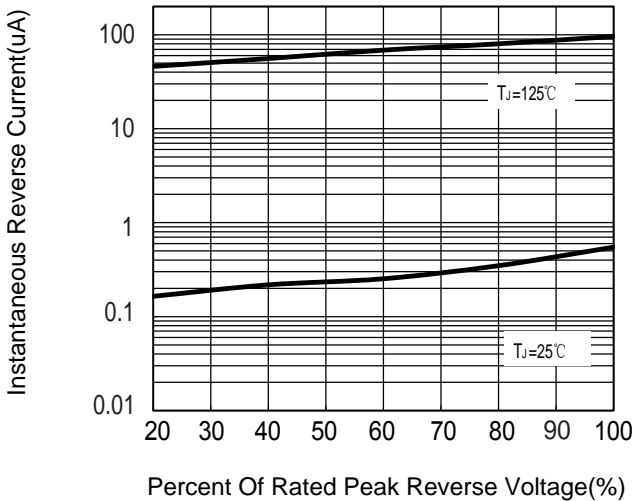


Fig.5 Typical Reverse Characteristics





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