



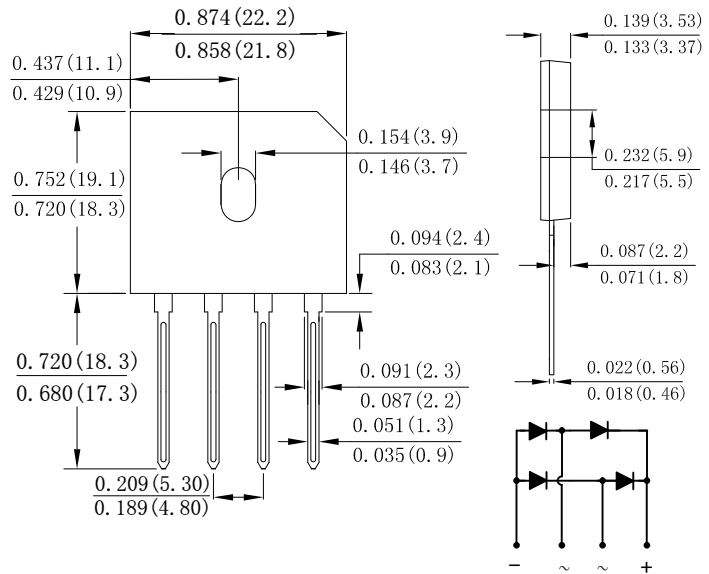
GBU15005 THRU GBU1510

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

Case: GBU



dimensions in inches and (millimeters)

Mechanical Data

- Case: G B U , molded plastic
- 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

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%.

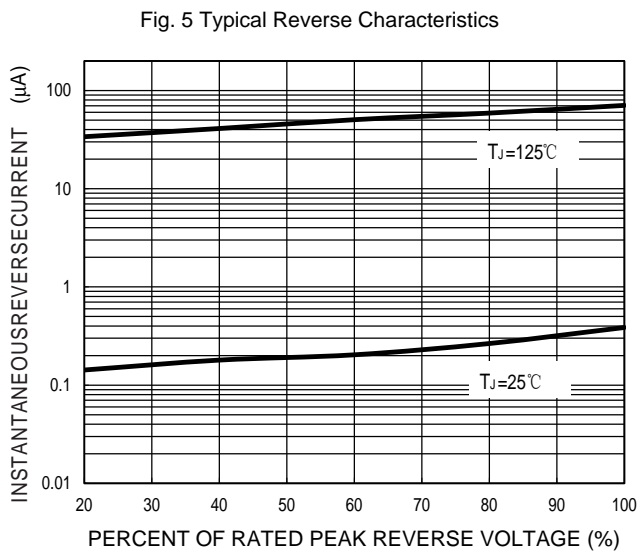
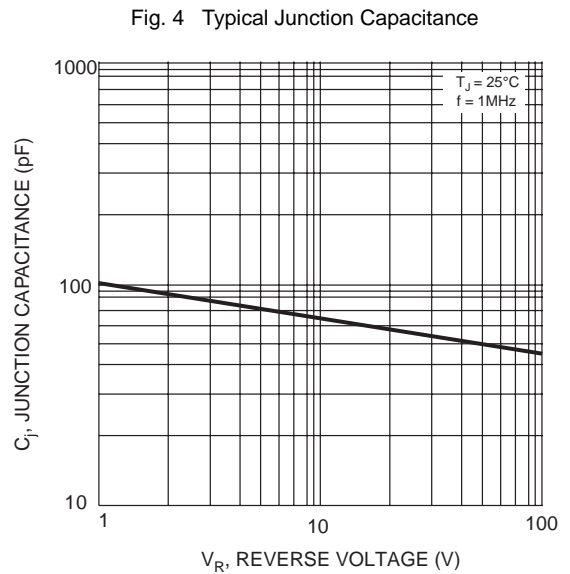
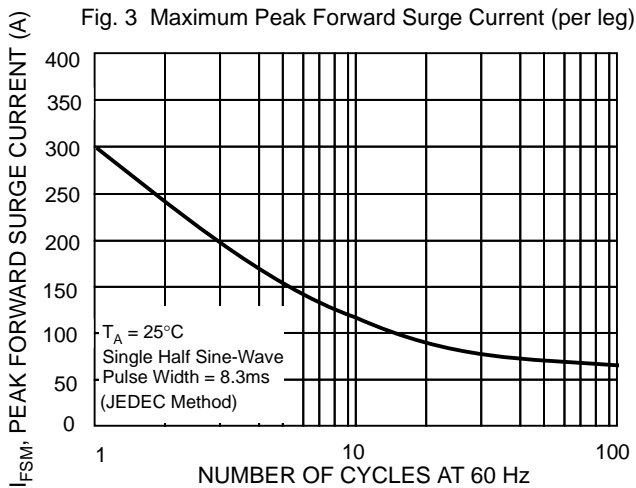
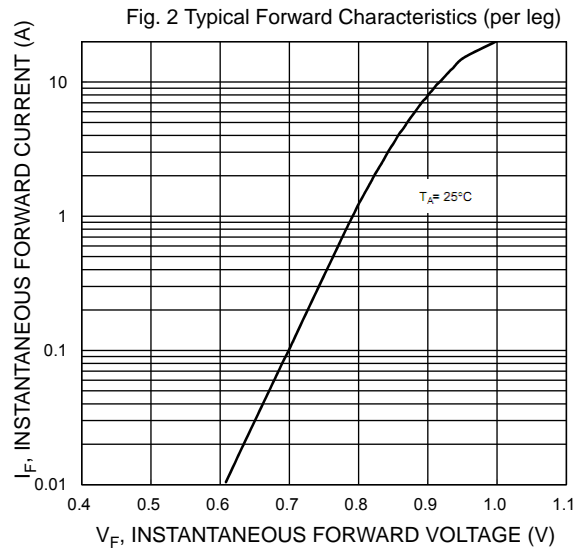
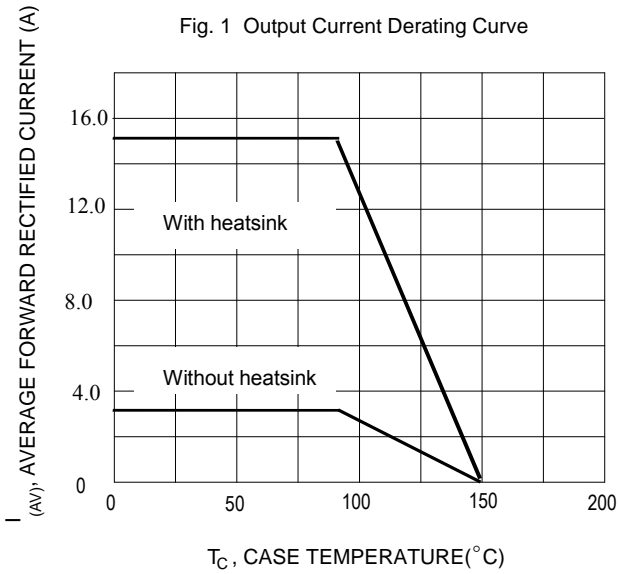
TYPE NUMBER	SYMBOL	GBU15005	GBU1501	GBU1502	GBU1504	GBU1506	GBU1508	GBU1510	UNITS	
Peak Repetitive Reverse Voltage	V_{RRM}									
Working Peak Reverse Voltage	V_{RWM}	50	100	200	400	600	800	1000	V	
DC Blocking Voltage	V_{DC}									
RMS Reverse Voltage	V_{RMS}	35	70	140	280	420	560	700	V	
Average Rectified Output Current (with heatsink) @T _c =90°C (without heatsink)	$I_{F(AV)}$					15.0				A
Non-Repetitive Peak Forward Surge Current @T _J =25°C 8.3ms Single half sine-wave superimposed @T _J =125°C on rated load (JEDEC Method)	I_{FSM}					300				A
Non-Repetitive Peak Forward Surge Current 1 ms Single half sine-wave @T _J =125°C superimpose on rated load (JEDEC Method)	I_{FSM}					600				A
Forward Voltage per element @IF=7.5A	V_{FM}					1.0				V
Peak Reverse Current @T _J =25°C	I_R					5.0				uA
At Rated DC Blocking Voltage @T _J =125°C						200				
I ² t Rating for fusing (t <8.3ms)	I ² t					373.5				A ² s
Dielectric Strength	V _{ids}					2500				V
The proposed installation torque	T _{or}					5.0				Kgf.cm
Max torque						8.0				
Typical Junction Capacitance (Note 1)	C _J					75				pF
Typical Thermal Resistance	R _{θJA}					28				°C/W
	R _{θJC}					8.7				
	R _{θJL}					5.3				
Operating and Storage Temperature Range	T _J , T _{STG}					-55to+150				°C

Note: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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