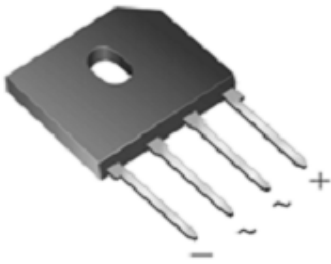


EDCON-COMPONENTS

**Glass Passivated Single-Phase Bridge Rectifiers Reverse Voltage 50 to 1000 Volts
Forward Current 25.0 Amperes**



**GBU25A thru
GBU25M**



- Ideal for printed circuit boards
- High surge current capability
- High case dielectric strength of 1500 V_{RMS}
- Solder Dip 260 °C, 40 seconds

Maximum Ratings and Electrical Characteristics

Rating at 25 °C ambient temperature unless otherwise specified.
Single phase, half wave, 50Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBU 25005	GBU 2501	GBU 2502	GBU 2504	GBU 2506	GBU 2508	GBU 2510	Units
Maximum Repetitive Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	350	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V _{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward (with heatsink Note 2) Rectified Current @T _c = 100°C (without heatsink)	I _{F(AV)}	10 3.6							A
Peak Forward Surge Current 8.3ms single half sine-wave super imposed on rated load (JEDEC Method)	I _{FSM}	250 300							A
Maximum Instantaneous Forward Voltage Drop Per Leg @ 5.0A/7.5A	V _F	1.0							V
Maximum DC Reverse Current T _J = 25 °C at Rated DC Blocking Voltage T _J = 125 °C	I _R	5.0 500							µA
I ² t Rating for fusing (t<8.3ms)	I ² t	200							A ² S
Typical Junction Capacitance per Leg (Note1)	C _J	70							pF
Typical Thermal Resistance (Note2)	R _{θJC}	2.2							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

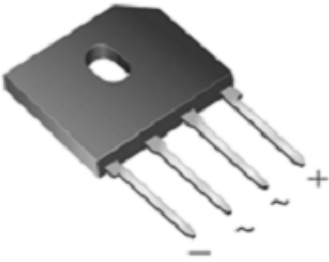
Notes:

1. Measured at 1.0MHz and applied reverse Voltage of 4.0 V DC.
2. Device mounted on 100mm x 100mm x 1.6mm Cu Plate Heatsink.

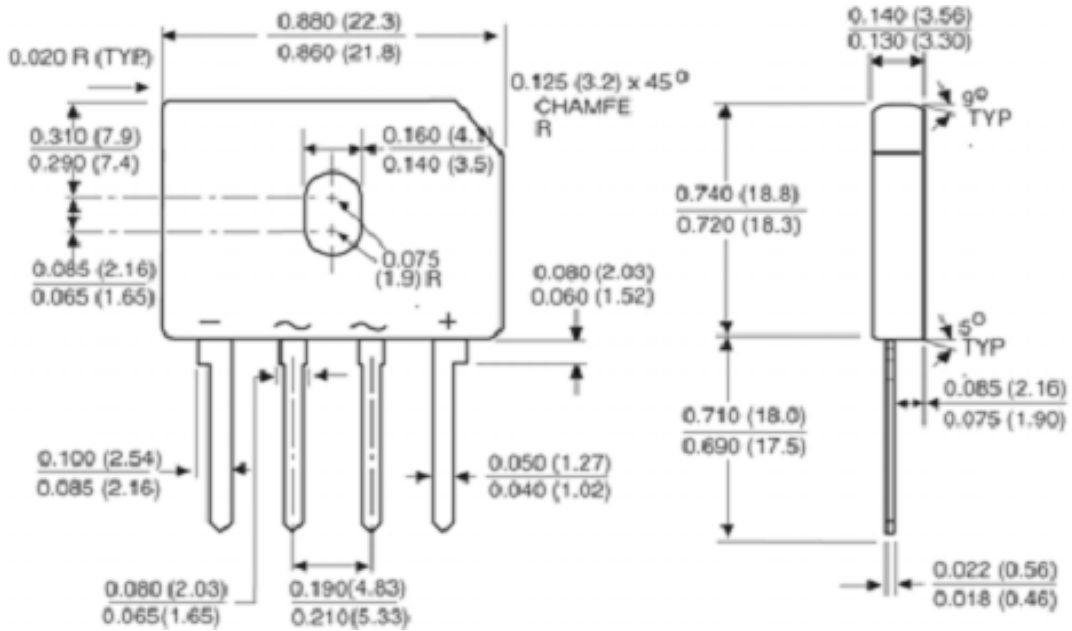
Single In Line Glass THT

EDCON-COMPONENTS

Glass Passivated Single-Phase Bridge Rectifiers Reverse Voltage 50 to 1000 Volts
Forward Current 25.0 Amperes



Technical Drawing



Dimensions in Inches (Millimeters)

Ratings and characteristic curve

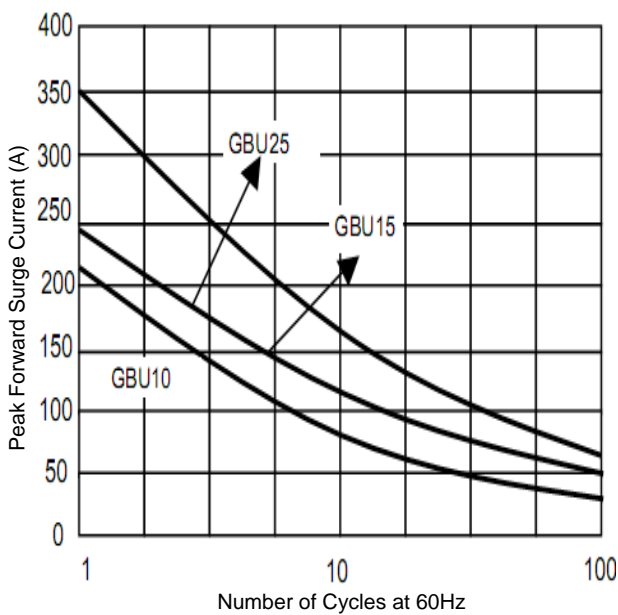


Figure 1. Maximum Forward Surge Current

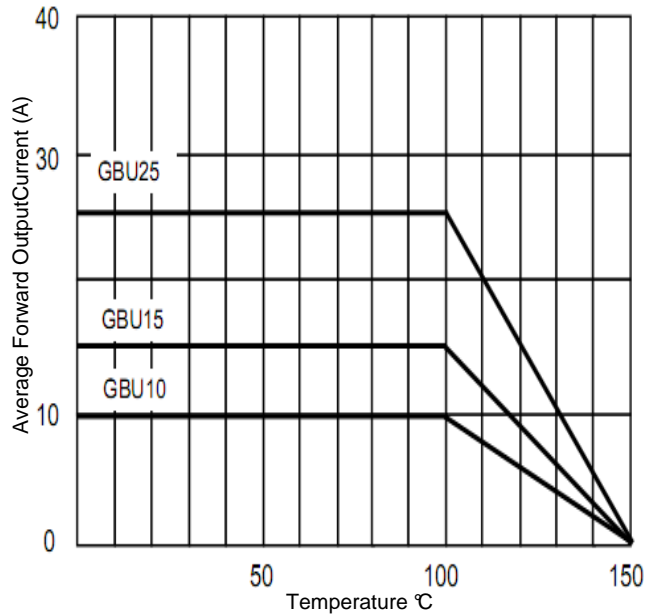


Figure 2. Derating Curve Output Rectified Current

Single In Line Glass THT

EDCON-COMPONENTS

Glass Passivated Single-Phase Bridge Rectifiers Reverse Voltage 50 to 1000 Volts
Forward Current 25.0 Amperes

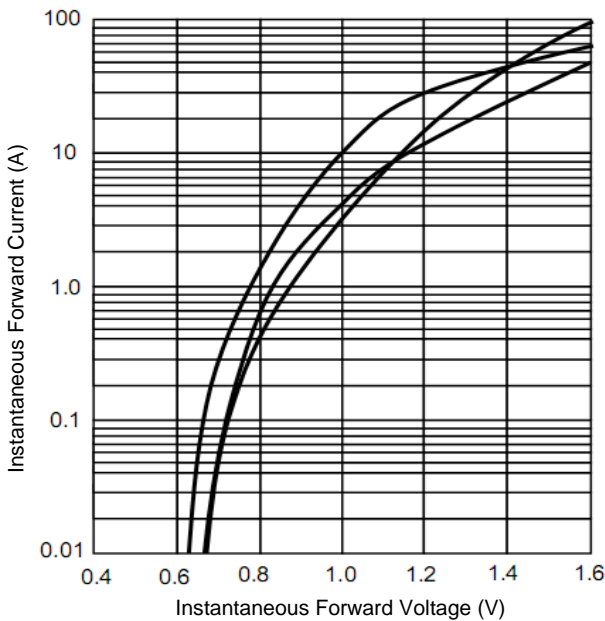
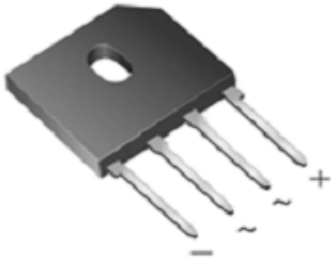


Figure 3. Typical Forward Characteristics

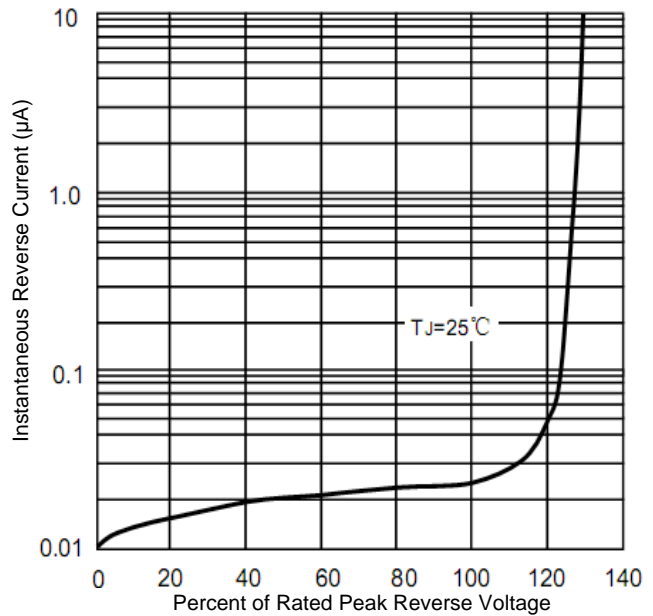


Figure 4. Typical Reverse Characteristics

Single In Line Glass THT

Ordering Information

Serie					
E14029	GBU25	TU			
	GBU25A	TR = Tape reel TU = Tube			
	GBU25B				
	GBU25D				
	GBU25G				
	GBU25J				
	GBU25K				
	GBU25M				