

GBPC15005 THRU GBPC1510

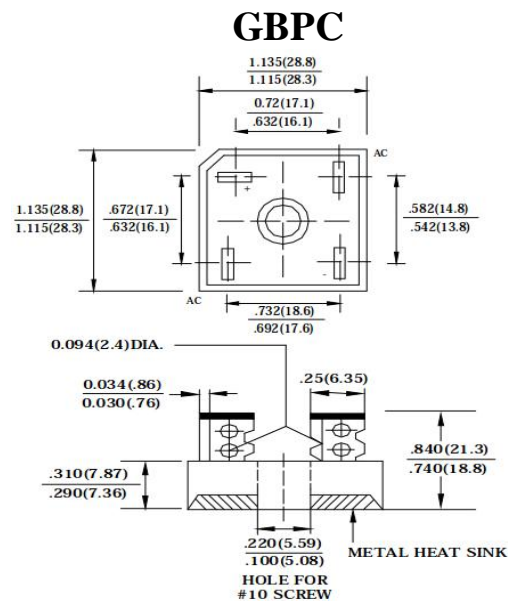
SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIERS
 REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 15 Ampere

FEATURES

- ◆ Rating to 1000V PRV.
- ◆ High efficiency.
- ◆ Glass passivated chip junction.
- ◆ Electrically isolated metal case for maximum heat dissipation.
- ◆ The plastic material has UL flammability classification 94V-0.
- ◆ Electrically isolated base-2500 Volts

Mechanical Data

- ◆ Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation.
- ◆ Polarity: As marked on Body.
- ◆ Mounting : Hole for # 10 screw.
- ◆ Weight : 0.55 ounces , 15.6 grams (terminal).



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%

PARAMETER	SYMBOL	GBPC 15005	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	UNIT
Maximum Recurrent Peak Reverse Voltage	V _{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V _{RMS}	35	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 =110°C(without heatsink)	I _(AV)	15.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I _{FSM}	300							A
Maximum forward Voltage at 7.5A DC	V _F	1.1							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	374							A ² S
Typical Junction Capacitance per element(Note 1)	C _J	300							pF
Typical Thermal Resistance (Note 2)	R _{θJC}	1.9							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	T _{STG}	-55 to +150							°C

Note : 1.Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.

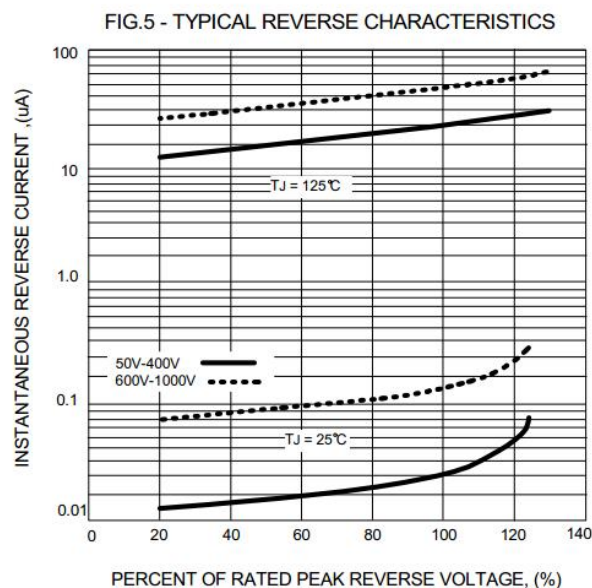
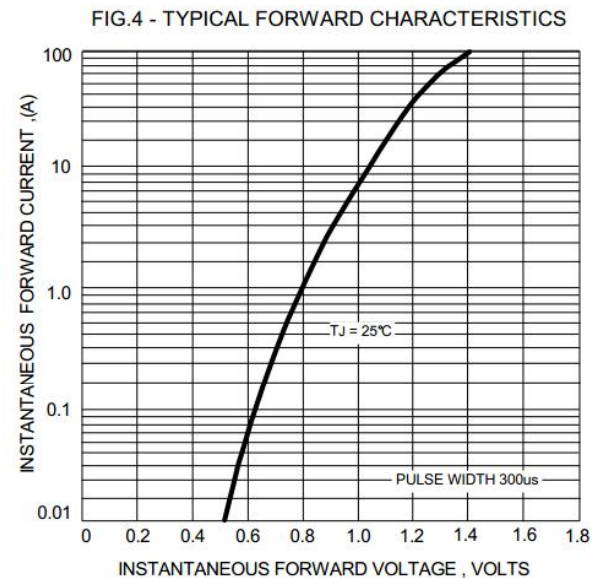
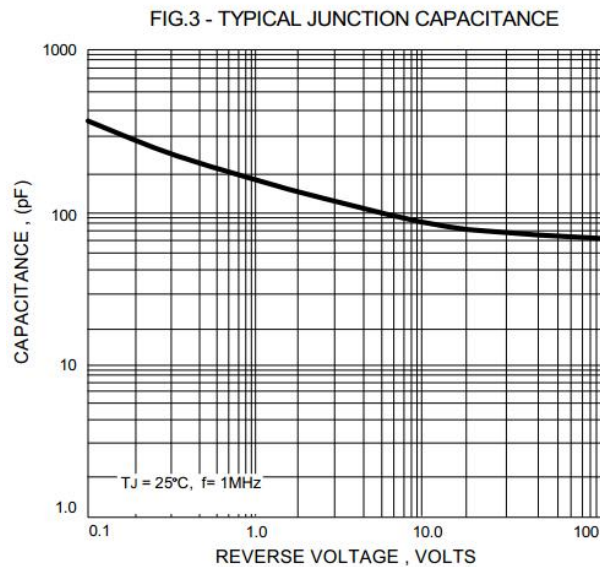
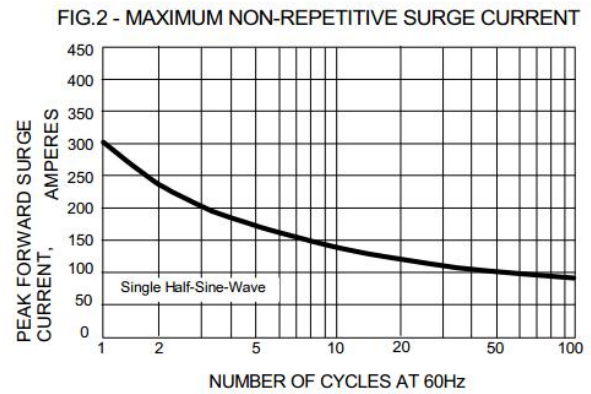
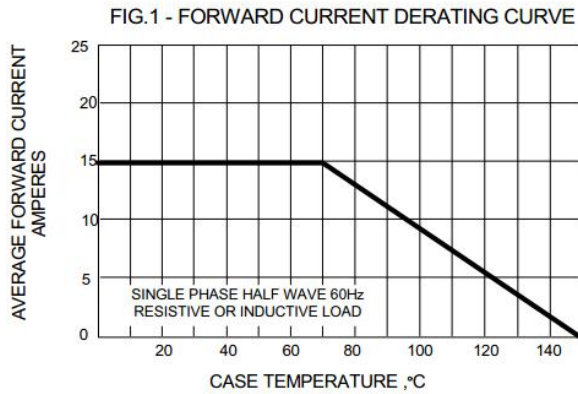
2. Measured at non-repetitive, for greater than 1ms and less than 8.3ms.

3. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

GBPC15005 THRU GBPC1510

SINGLE-PHASE BRIDGE RECTIFIER GLASS PASSIVATED BRIDGE RECTIFIER
 REVERSE VOLTAGE 50 to 1000 Volts FORWARD CURRENT 15 Ampere

RATING AND CHARACTERISTIC CURVES GBPC15005 THRU GBPC1510



Note: Specifications are subject to change without notice. For more detail and update, please visit our website.