Suntan_® Su_®

GBPC50005 THRU GBPC5010

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

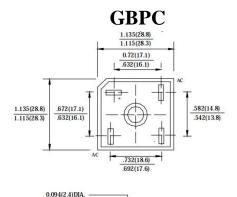
in the bridge encapsulation.

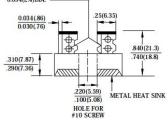
◆ Polarity: As marked on Body.

◆ Mounting : Hole for # 10 screw.

♦ Weight : 0.63 ounces , 18.0 grams (terminal)

0.51 ounces, 14.5 grams (wire).





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%

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PARAMETER	SYMBOL	GBPC 50005	GBPC 5001	GBPC 5002	GBPC 5004	GBPC 5006	GBPC 5008	GBPC 5010	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 @ $T_C=110^{\circ}C$ (without heatsink)	$I_{(AV)}$	50.5							А
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	450							А
Maximum forward Voltage at 25A DC	$V_{\rm F}$	1.1							V
Maximum DC Reverse Current $@T_J=25^{\circ}C$ at Rated DC Blocking voltage $@T_J=125^{\circ}C$	IR	5.0 500							μΑ
I ² t Rating for fusing(t<8.3ms)	I ² t	800							A^2S
Typical Junction Capacitance per element(Note 1)	C _J	150							pF
Typical Thermal Resistance (Note 2)	Rejc	1.4							°C/W
Operating Temperature Range	T _J	-55 to +150							°C
Storage Temperature Range	Tstg	-55 to +150							°C

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

2.Measured at 1.0M Hz and applied reversed voltage of 4.0 VDC.

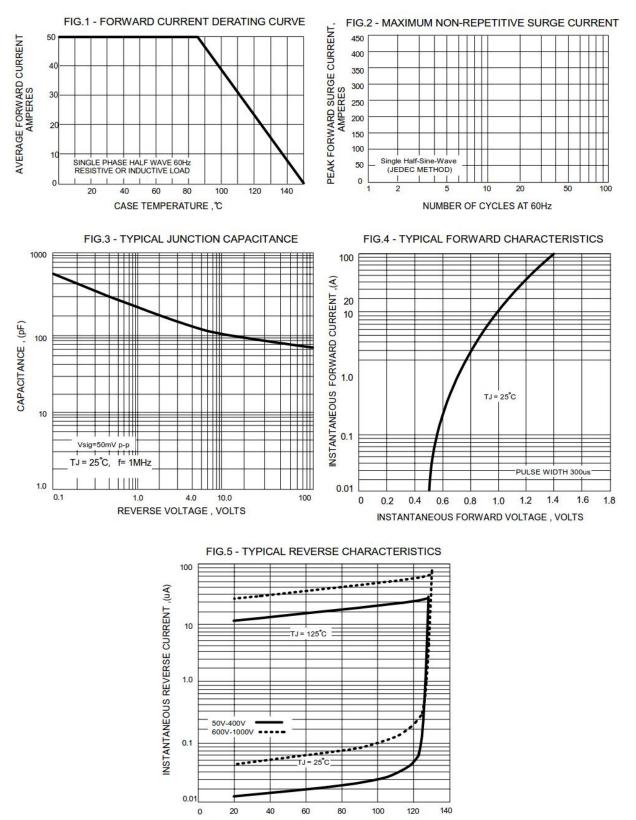
3. Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

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RATING AND CHARACTERISTIC CURVES GBPC50005 THRU GBPC5010



PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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