

# GBP506 THRU GBP510 SINGLE PHASE 5.0 AMP BRIDGE RECTIFIERS

## **FEATURES**

\* Ideal for printed circuit board

\* Low forward voltage

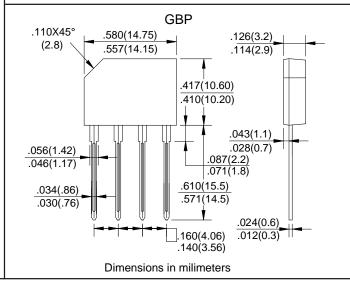
\* Low leakage current

\* Polarity: marked on body

\* Mounting position: Any

\* Weight: 4.8 grams

### VOLTAGE RANGE 600 to 1000 Volts CURRENT 5.0 Ampere



#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

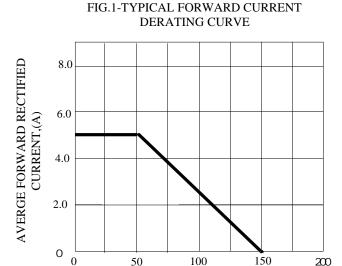
Rating 25°C ambient temperature unless otherwies specified. Single phase half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

	Symbols	GBP506	GBP508	GBP510	Units
Maximum Recurrent Peak Reverse Voltage	V <sub>RRM</sub>	600	800	1000	Volts
Maximum RMS Voltage	$V_{RMS}$	420	560	700	Volts
Maximum DC Blocking Voltage	V <sub>DC</sub>	600	800	1000	Volts
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at $T_A$ =50	I <sub>(AV)</sub>	5.0			Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC method)	I <sub>FSM</sub>	120			Amp
Maximum Forward Voltage at 5.0A DC and 25	$\mathbf{V_F}$	1.1			Volts
Maximum Reverse Current at $T_A$ =25 at Rated DC Blocking Voltage $T_A$ =100	$I_R$	10.0 500			uAmj
Typical Junction Capacitance (Note 1)	C <sub>J</sub>	25			pF
Typical Thermal Resistance (Note 2)	R <sub>JA</sub>	25			/W
Typical Thermal Resistance (Note 2)	R <sub>JL</sub>	16			/W
Operating and Storage Temperature Range	T <sub>J</sub> , Tstg	-55 to +150			

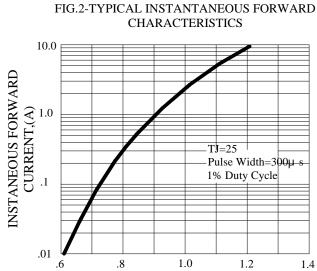
#### **NOTES:**

- 1- Measured at 1  $MH_Z$  and applied reverse voltage of 4.0 VDC.
- 2- Thermal Resistance Junction to Ambient and form junction to lead at 0.375"(9.5mm) lead length P.C.B. Mounted.

#### RATING AND CHARACTERISTIC CURVES (GBP506 THRU GBP510)



AMBIENT TEMPERTURE,( )



INSTANEOUS FORWARD VOLTAGE,(V)

