

## **GBP005 THRU GBP10**

# SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT: 2.0A

#### **FEATURES**

Ideal for printed circuit board

Reliable low cost construction utilizing molded plastic

technique

Surge overload rating: 50A peak

#### **MECHANICAL DATA**

. Terminal: Plated leads solderable per

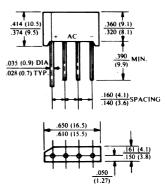
MIL-STD 202E, method 208C

. Case: UL-94 Class V-0 recognized Flame Retardant Epoxy

. Polarity: Polarity symbol marked on body

. Mounting position: any

## <u>GBP</u>



Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25  $^{\circ}C$ , unless otherwise stated, for capacitive load, derate current by 20%)

	SYMBOL	KBP005	KBP01	KBP02	KBP04	KBP06	KBP08	KBP10	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	٧
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified									
current at Ta=50°C	If(av)	2.0							Α
Peak Forward Surge Current 8.3ms single									
half sine-wave superimposed on rated load	Ifsm	60							Α
Maximum Instantaneous Forward Voltage at									
forward current 2.0A DC	Vf	1.1							V
Maximum DC Reverse Voltage Ta=25 °C		10.0							μА
at rated DC blocking voltage Ta=100 $^{\circ}\mathrm{C}$	lr	1.0							m A
Operating Temperature Range	Tj	-55 to +150							°C
Storage and operation Junction Temperature	Tstg	-55 to +150							°C
Note:	-	-							

Note:

1.Measured at 1.0 MHz and applied reverse voltage of 4.0Vdc



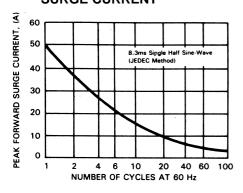
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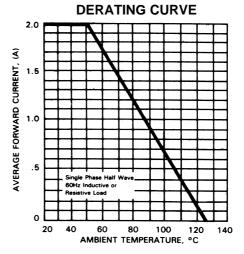
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### **RATINGS AND CHARACTERISTIC CURVES GBP005 THRU GBP10**

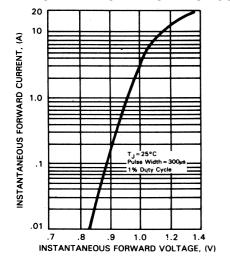
## FIG.1-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



## FIG.2-TYPICAL FORWARD CURRENT



## FIG.3-TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS



### FIG.4-TYPICAL REVERSE CHARACTERISTICS

