



# GBPC15005 THRU GBPC1510

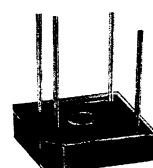
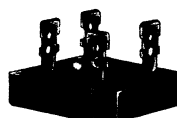
## SINGLE PHASE SILICON PASSIVATED BRIDGE RECTIFIER

Voltage: 50 TO 1000V CURRENT:15A

### FEATURES

- Surge overload rating: 300A peak
- low profile design
- 1/4" Universal faston terminal
- and Ø40ml lead--wire available

### GBPC



### MECHANICAL DATA

- Polarity:** Polarity symbol marked on body
- Mounting :** Hole thru for #10 screw

### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

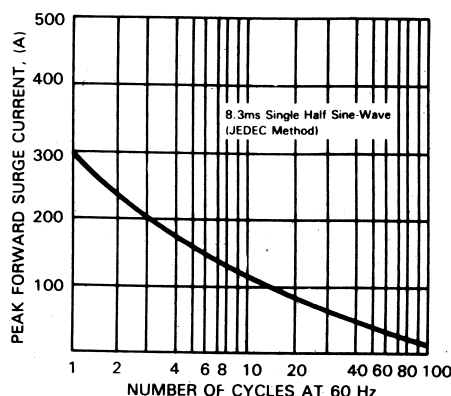
(Single-phase, half-wave, 60HZ, resistive or inductive load rating at 25 °C , unless otherwise stated,  
for capacitive load, derate current by 20%)

for capacitive load, storage current by 25%)

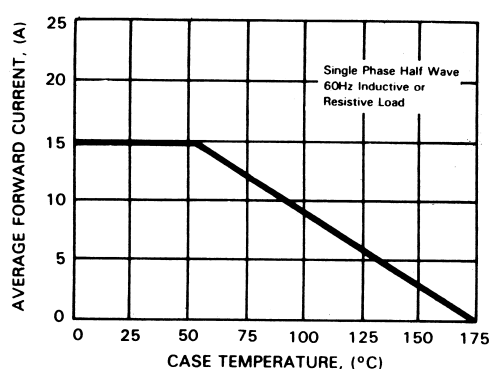
	SYMBOL	GBPC 15005	GBPC 1501	GBPC 1502	GBPC 1504	GBPC 1506	GBPC 1508	GBPC 1510	units
Maximum Recurrent Peak Reverse Voltage	Vrrm	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	Vrms	35	70	140	280	420	560	700	V
Maximum DC blocking Voltage	Vdc	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified current at Ta=55 °C	If(av)	15							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	Ifsm	300							A
Maximum Instantaneous Forward Voltage at forward current 7.5A	Vf	1.1							V
Maximum DC Reverse Voltage Ta=25 °C	Ir	10.0							μ A
at rated DC blocking voltage Ta=100 °C		500							μ A
Operating Temperature Range	Tj	-55 to +175							°C
Storage and operation Junction Temperature	Tstg	-55 to +175							°C
Note: Suffix "W" for wire type									

### RATINGS AND CHARACTERISTIC CURVES GBPC15005 THRU GBPC1510

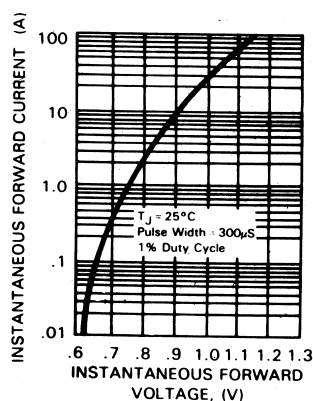
**FIG.1-MAXIMUM NON-REPETITIVE FORWARD  
SURGE CURRENT**



**FIG.2-TYPICAL FORWARD CURRENT  
DERATING CURVE**



**FIG.3-TYPICAL INSTANTANEOUS  
FORWARD CHARACTERISTICS**



**FIG.4-TYPICAL REVERSE CHARACTERISTICS**

