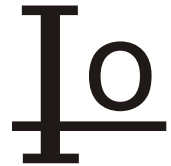


# GBPC15005W THRU GBPC1510W

SINGLE PHASE 15 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



## Features

- Integrally molded heatsink provided very low thermal resistance for maximum heat dissipation.
  - Surge overload ratings from 300 amperes to 400 amperes.
  - Isolated voltage from case to lead over 2500 volts.
- \* Lead Free Finish/RoHS Compliant

## Suffix "W"

Wire Lead Structure

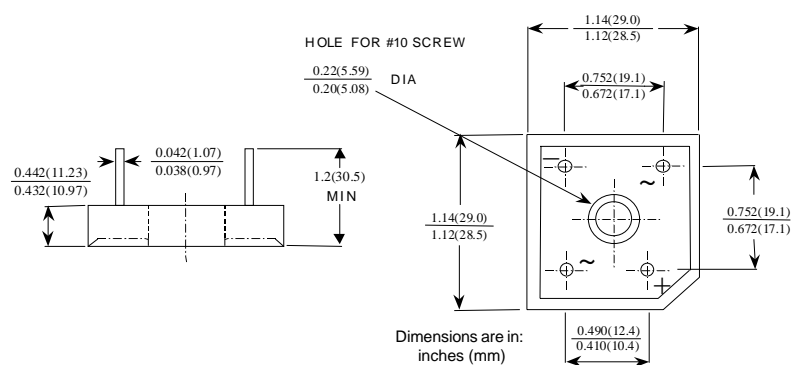
## VOLTAGE RANGE

50 to 1000 Volts

## CURRENT

15.0 Ampere

## GBPC-W



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBPC15005W	GBPC1501W	GBPC1502W	GBPC1504W	GBPC1506W	GBPC1508W	GBPC1510W	UNITS	
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V	
Maximum RMS Voltage	35	70	140	280	420	560	700	V	
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V	
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Tc=55 °C								15	A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)								300	A
Maximum Forward Voltage Drop per Bridge Element at 7.5 A.D.C.								1.1	V
Maximum DC Reverse Current Ta=25 °C								10	uA
at Rated DC Blocking Voltage Ta=100 °C								500	uA
Operating Temperature Range, Tc								-50 — +150	°C
Storage Temperature Range, Ta								-55 — +150	°C
R <sub>θJL</sub> Thermal Resistance, Junction to lead								1.5	°C/W
P <sub>D</sub> Total Device Dissipation Derate above 25 °C								83.3 666	W mW/°C

# RATING AND CHARACTERISTIC CURVES (GBPC15005W THRU GBPC1510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

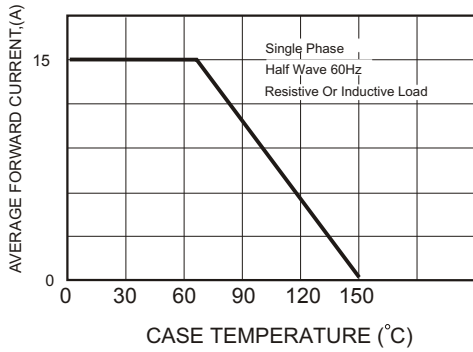


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

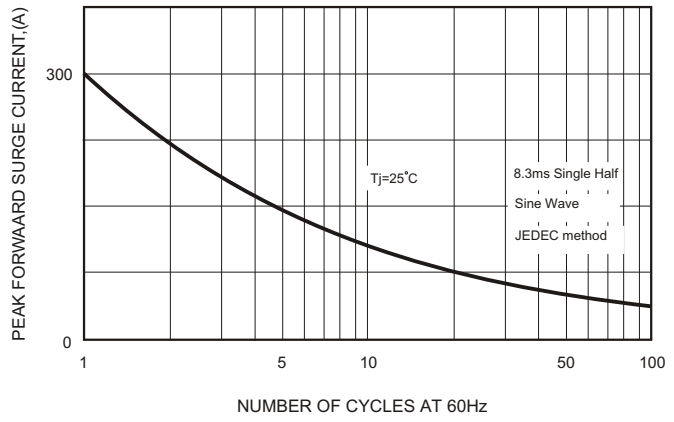


FIG.3-TYPICAL FORWARD CHARACTERISTICS

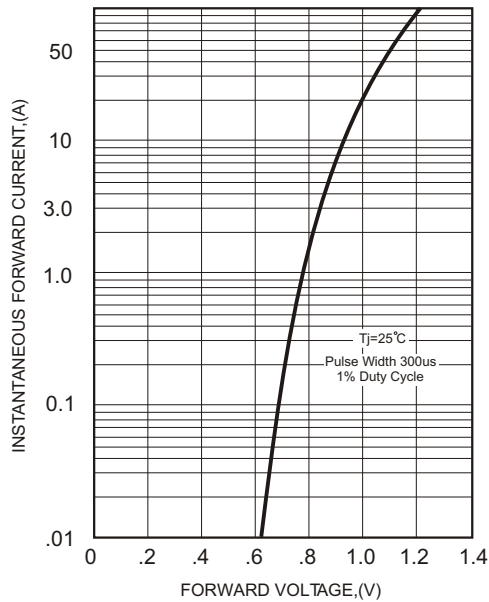


FIG.4-TYPICAL REVERSE CHARACTERISTICS

