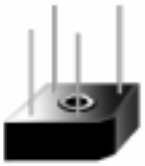
GBPC25005W THRU GBPC2510W

SINGLE PHASE 25 AMP GLASS PASSIVATED BRIDGE RECTIFIERS



Features

- Integrally molded heatsink provided very low thermal resistance for maximum heat dissipation.
- Surge overload rartings 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

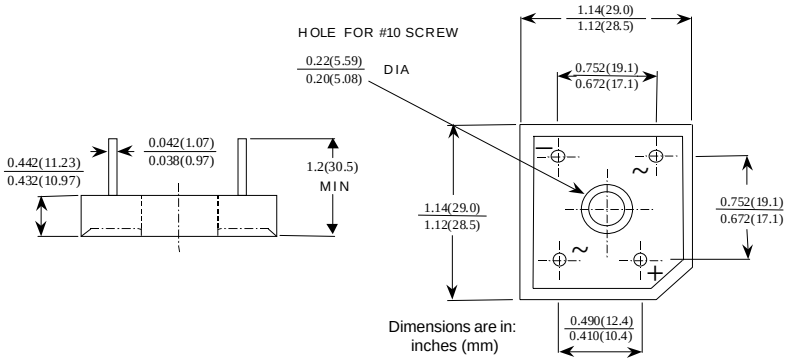
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

25.0 Ampere

GBPC-W



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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

TYPE NUMBER	GBPC25005W	GBPC2501W	GBPC2502W	GBPC2504W	GBPC2506W	GBPC2508W	GBPC2510W	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 ℃	25							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	400							A
Maximum Forward Voltage Drop per Bridge Element at 12.5 A D.C.	1.1							V
Maximum DC Reverse Current Ta=25 ℃	10							uA
at Rated DC Blocking Voltage Ta=100 ℃	500							uA
Operating Temperature Range, Tc	-50 —+150							℃
Storage Temperature Range, Ta	-55 —+150							℃
$R_{\theta JL}$ Ther mal Resistance,Junction to lead	1.5							°C/W
P_D Total Device Dissipation Derate above 25°C	83.3 666							W mW/°C

RATING AND CHARACTERISTIC CURVES (GBPC25005W THRU GBPC2510W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

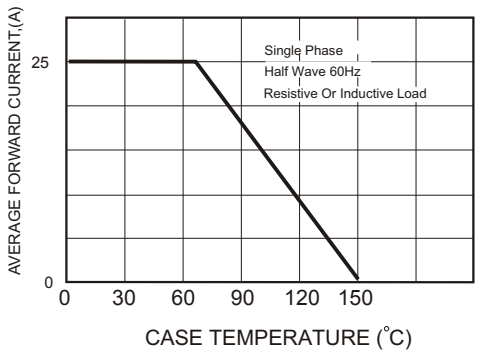


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

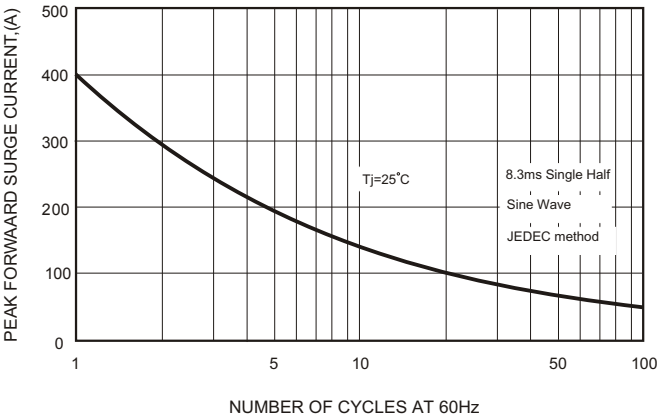


FIG.3-TYPICAL FORWARD CHARACTERISTICS

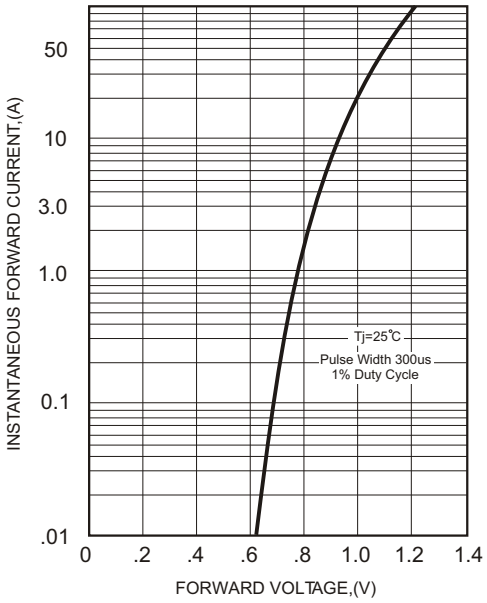


FIG.4-TYPICAL REVERSE CHARACTERISTICS