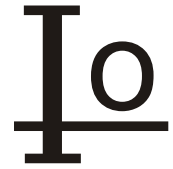


GBPC35005W THRU GBPC3510W

SINGLE PHASE 35 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

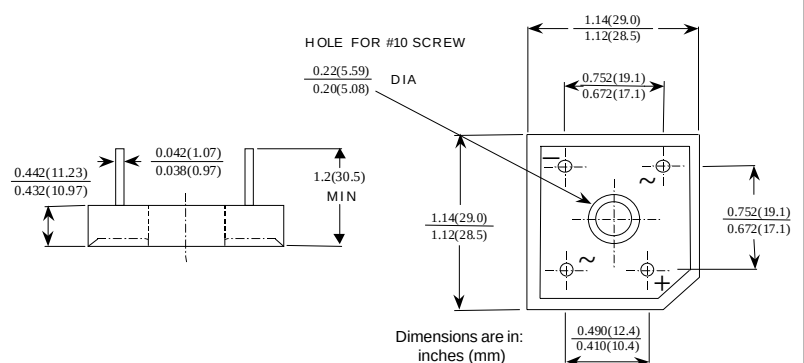
VOLTAGE RANGE

50 to 1000 Volts

CURRENT

35.0 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	GBPC35005W	GBPC3501W	GBPC3502W	GBPC3504W	GBPC3506W	GBPC3508W	GBPC3510W	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	35							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 17.5 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
RθJL Thermal Resistance, Junction to lead	1.5							°C/W
Pd Total Device Dissipation Derate above 25 °C	83.3 666							W mW/°C

RATING AND CHARACTERISTIC CURVES (GBPC35005W THRU GBPC3510W)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

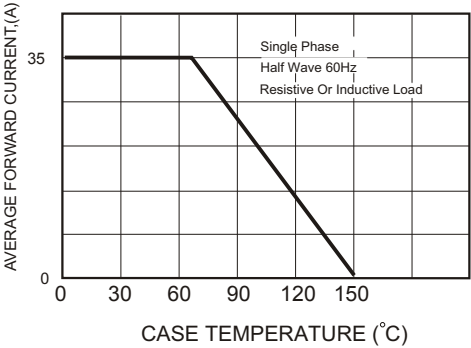


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

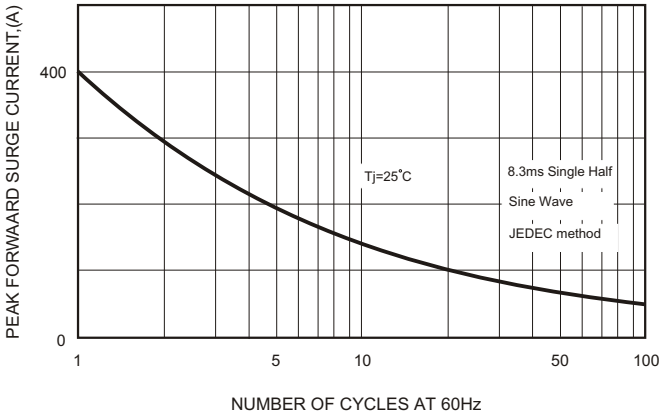


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

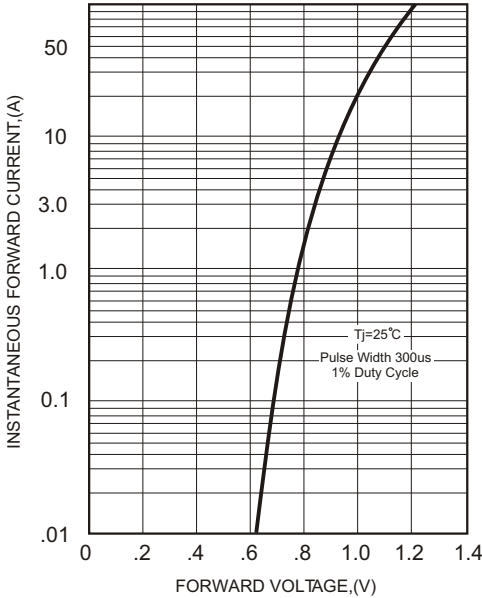


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

