



GBPC 15, 25, 35 SERIES

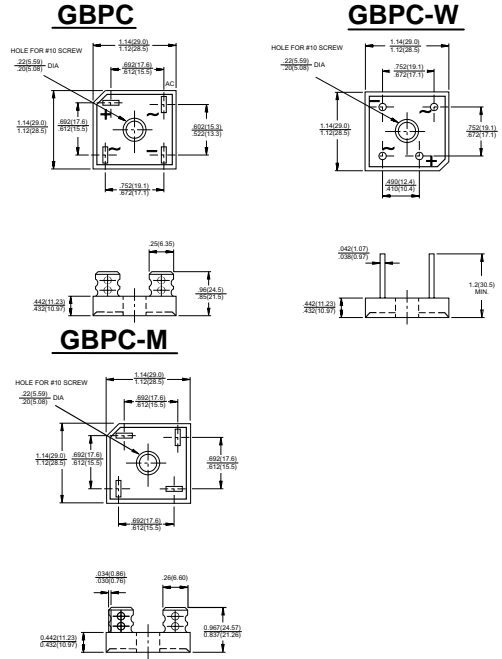
High Current 15, 25, 35 AMPS. Single Phase Glass Passivated Bridge Rectifiers



Voltage Range
50 to 1000 Volts
Current
15.0/25.0/35.0 Amperes

Features

- ◇ UL Recognized file # E-96005
- ◇ The plastic material used carries Underwriters Laboratory Flammability Recognition 94V-0
- ◇ Integrally molded heatsink provide very low thermal resistance for maximum heat dissipation
- ◇ Surge overload ratings from 300 amperes to 400 amperes
- ◇ Terminals solderable per MIL-STD-202, Method 208 (For wire type)
- ◇ Typical I_R less than 0.2 μ A
- ◇ High temperature soldering guaranteed: 260°C / 10 seconds / .375", (9.5mm) lead lengths (For wire type)
- ◇ Isolated voltage from case to lead over 2500 volts



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60 Hz, resistive or inductive load.

For capacitive load, derate current by 20%

Type Number	-005	-01	-02	-04	-06	-08	-10	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 @ $T_C = 55^\circ\text{C}$	GBPC15	GBPC25	GBPC35	15.0	25.0	35.0		A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	GBPC15	GBPC25	GBPC35	300	300	400		A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	GBPC15 7.5A	GBPC25 12.5A	GBPC35 17.5A	1.1				V
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element				5				μ A
Typical Thermal Resistance (Note 1) $R\theta_{JC}$				1.5				$^\circ\text{C}/\text{W}$
Operating and Storage Temperature Range T_J, T_{STG}				-50 to +150				$^\circ\text{C}$

Notes: 1. Thermal Resistance from Junction to Case.

2. Suffix "W" - Wire Lead Structure/"M" - Terminal Location Face to Face.

GBPC15005 GBPC1510
 RATINGS AND CHARACTERISTIC CURVES (GBPC25005 THRU GBPC2510)
 GBPC35005 GBPC3510

FIG. 1- MAXIMUM FORWARD CURRENT DERATING CURVE

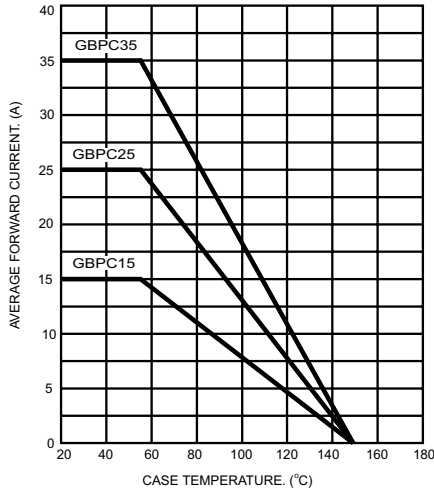


FIG. 2- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

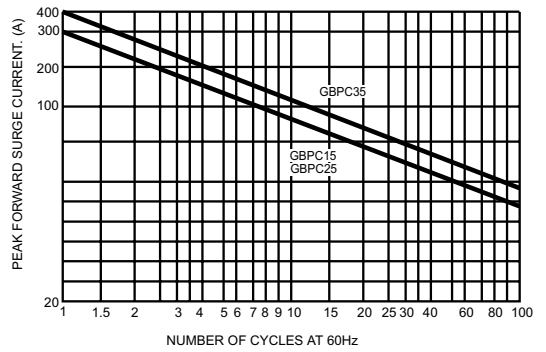


FIG. 3- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

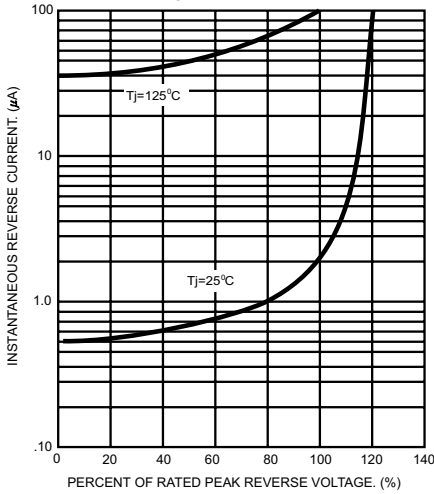


FIG. 4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

