

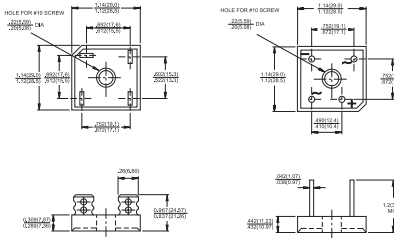
GBPC 15, 25, 35 SERIES

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



GBPC

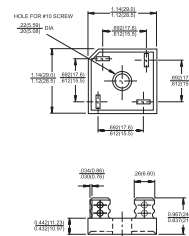
GBPC-W



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 uA
- ◇ 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

GBPC-M



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	Symbol	-005	-01	-02	-04	-06	-08	-10	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @ $T_c = 55^\circ\text{C}$	$I_{(AV)}$	GBPC15 15.0 GBPC25 25.0 GBPC35 35.0				A			
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	I_{FSM}	GBPC15 300 GBPC25 300 GBPC35 400				A			
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	V_F	GBPC15 7.5A GBPC25 12.5A GBPC35 17.5A				1.1 V			
Maximum DC Reverse Current at Rated DC Blocking Voltage Per Element	I_R	5				uA			
Typical Thermal Resistance (Note 1)	$R_{\theta JC}$	1.5				°C/W			
Operating and Storage Temperature Range	T_J, T_{STG}	-50 to +150				°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

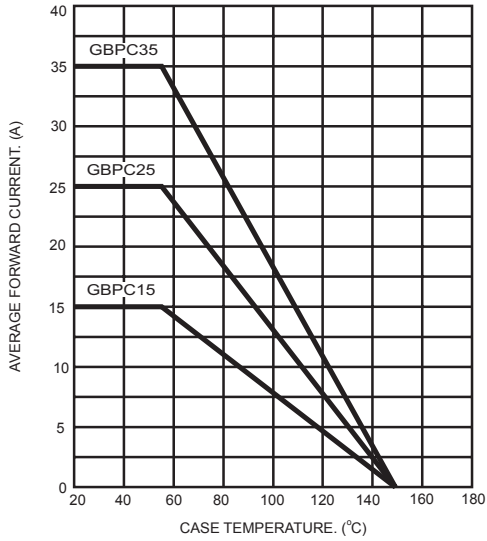


FIG.2- TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

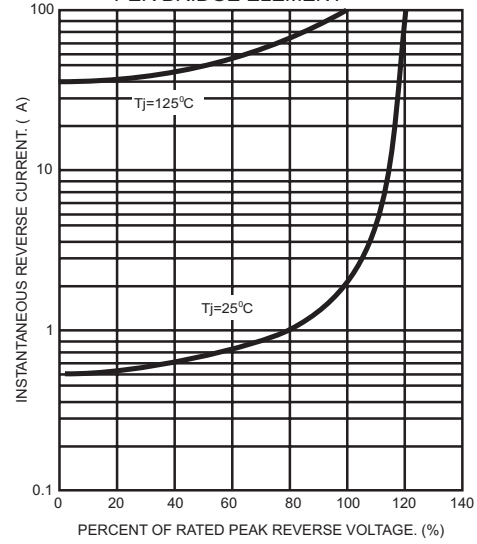


FIG.3- MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT PER BRIDGE ELEMENT

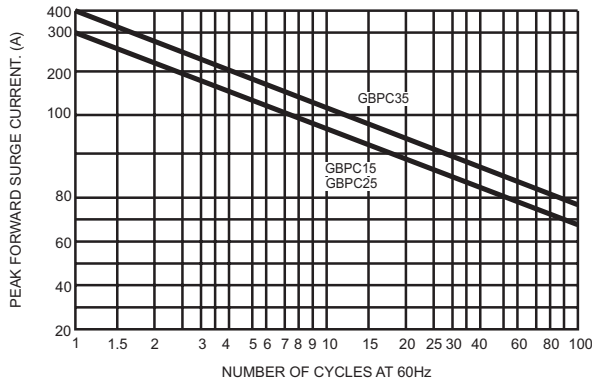


FIG.4- TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT

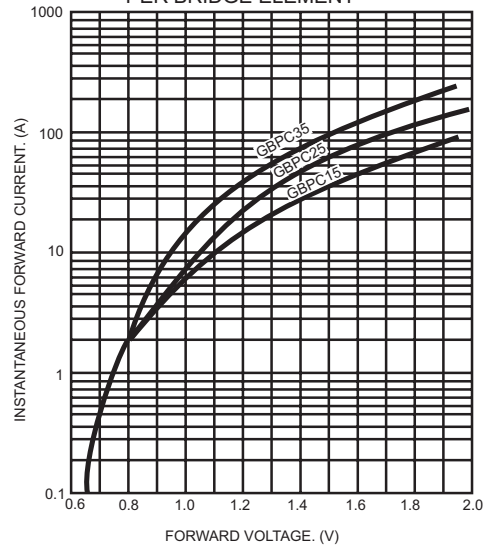


FIG.5- TYPICAL JUNCTION CAPACITANCE

