



# GBPC 15, 25, 35 SERIES

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

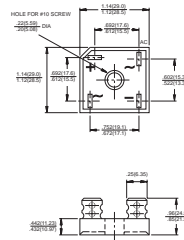


Voltage Range  
50 to 1000 Volts  
Current  
15.0/25.0/35.0 Amperes

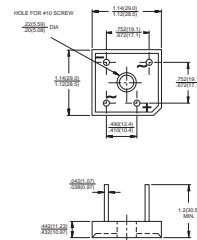
## Features

- ✧ 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 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

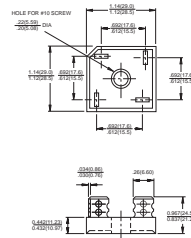
### GBPC



### GBPC-W



### 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 @ $T_C = 55^\circ C$	$I_{(AV)}$					15.0			A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load (JEDEC method)	$I_{FSM}$					300			A
Maximum Instantaneous Forward Voltage Drop Per Element at Specified Current	$V_F$					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

