

# GBPC 15, 25, 35 SERIES

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



## Features

- ◇ UL Recognized file # E-326243
- ◇ 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
- ◇ 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

## Mechanical Data

- ◇ Case: Molded plastic body.
- ◇ Terminals: Pure tin plated, Lead free. leads solderable per MIL-STD-202, Method 208
- ◇ Weight:16.95 grams
- ◇ Mounting Torque: 20 inches-lbs. max.

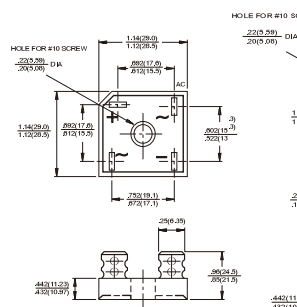
## Maximum Ratings and Electrical Characteristics

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%

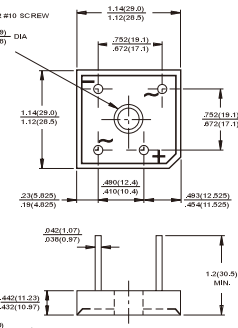
Type Number	Symbol	-005	-01	-02	-04	-06	-08	-10	Units
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current @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

Notes: 1. Pulse Test with PW=300 usec, 1% Duty Cycle  
2. Suffix "W" - Wire Lead Structure/"M" - Terminal Location Face to Face.

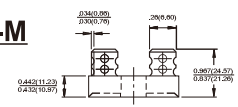
### GBPC



### GBPC-W



### GBPC-M



Dimensions in inches and (millimeters)

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

