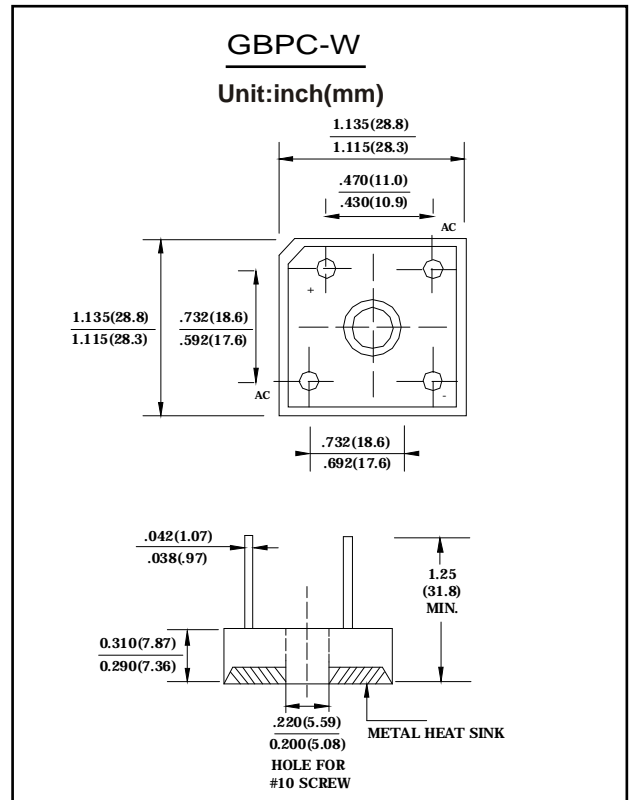


FEATURES

- Rating to 1000V PRV
- High efficiency
- Glass passivated chip junction
- Electrically isolated metal case for maximum heat dissipation
- The plastic material has UL flammability classification 94V-0
- Electrically isolated base-2500 Vlots

MECHANICAL DATA

- Case : Molded plastic with Heatsink internally mounted in the bridge encapsulation
- Polarity : As marked on Body
- Mounting : Hole for # 10 screw
- Weight : 0.47 ounces , 13.4 grams (wire)



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

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

For capacitive load, derate current by 20%

CHARACTERISTICS	SYMBOL	GBPC 35005W	GBPC 3501W	GBPC 3502W	GBPC 3504W	GBPC 3506W	GBPC 3508W	GBPC 3510W	UNIT
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 @ $T_C = T_a$	$I_{(AV)}$	35.0							A
Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load	I_{FSM}	400							A
Maximum forward Voltage at 17.5A DC	V_F	1.1							V
Maximum DC Reverse Current at Rated DC Blocking Voltage @ $T_J = 25^\circ C$ @ $T_J = 125^\circ C$	I_R	5.0 500							μA
$I^2 t$ Rating for fusing ($t < 8.3ms$), (Note 1)	$I^2 t$	660							$A^2 S$
Typical Junction Capacitance per element (Note 2)	C_J	150							pF
Typical Thermal Resistance (Note 3, see Fig.1)	$R_{\theta JC}$	5.0							$^\circ C/W$
Operating Temperature Range	T_J	-55 to +150							$^\circ C$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ C$

NOTES : 1.Measured at non-repetitive, for greater than 1ms and less than 8.3ms
 2.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
 3.Device mounted on 300mm x 300mm x 1.6mm Cu Plate Heatsink.

RATINGS AND CHARACTERISTIC CURVES

