GBPC 15A/25A/35A SERIES

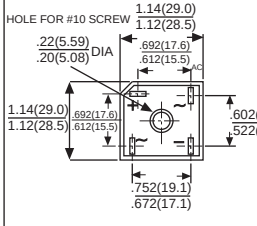
HIGH CURRENT 15/25/35 AMPS. SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

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

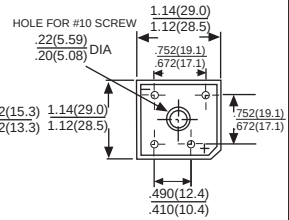
Features

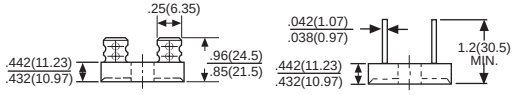
- *The plastic material used carries Underwriters Laboratory Flammanility Recongnition 94V-0
- *Integrally molded heatsink provide very low thermal resistance for maximun heat dissipation
- *Surge overload ratings from 300 amperes to 400 amperes
- *Terminals solderable per mil-std-202, Method 208(For wire type)
- *Typical I_R less than 0.2uA
- *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





Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.
Single phase, half wave, 60Hz, resistive or inductive load.
For capacitive load, derate current by 20%

Type Number		GBPC 15/25/35 005	GBPC 15/25/35 01	GBPC 15/25/35 02	GBPC 15/25/35 04	GBPC 15/25/35 06	GBPC 15/25/35 08	GBPC 15/25/35 10	UNITS
Maximum Repetitive 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°C — GBPC15 GBPC25 GBPC35	$I_{F(AV)}$	15.0 25.0 35.0							A
Peak Forward Surge Current, Single Sine-wave Superimposed on Rated Load(JEDEC method) — GBPC15 GBPC25 GBPC35	I_{FSM}	300 300 400							A
Maximum Instantaneous Forward Voltage Drop Per Leg at Specified Current — GBPC15 7.5A GBPC25 12.5A GBPC35 17.5A	V_F	1.1							V
Maximun DC Reverse Current at Rated DC Blocking Voltage Per Leg	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. Therml Resistance from Junction to Case.
2.Suffix"W"-Wire Lead Structure/"M"-Terminal Location Face to Face.