

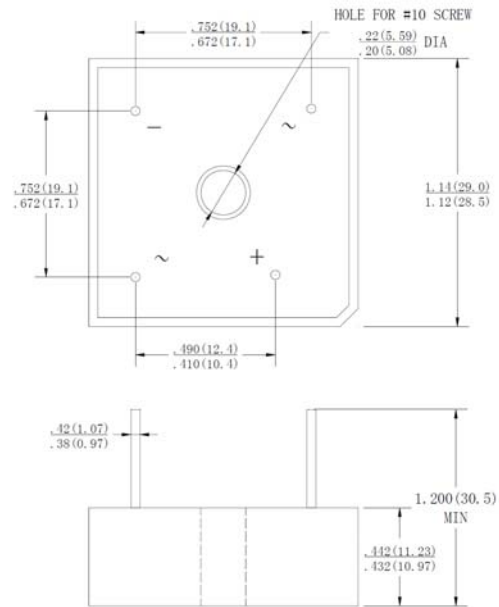
SINGLE-PHASE SILICO BRIDGE

GBPC15W SERIES 50 to 1000 V 15.0 A

FEATURES

- Surge overload rating-300 amperes peak
- Low forward voltage drop
- Mounting Position: Any
- Electrically isolated base-1800 Volts
- Solder cooper leads .040" diameter
- Materials use carries U/L recognition

GBPC-W



Dimensions in inches and (millimeters)

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%.

		GBPC 15005W	GBPC 1501W	GBPC 1502W	GBPC 1504W	GBPC 1506W	GBPC 1508W	GBPC 1510W	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	Volts
Maximum Average Forward output Current @ $T_C=55^\circ\text{C}$	$I_{(AV)}$	15.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load (JEDEC Method)	I_{FSM}	250							Amp
Maximum Forward Voltage at 7.5A DC	V_F	1.1							Volts
Maximum DC Reverse Current at rated @ $T_j=25^\circ\text{C}$ DC Blocking Voltage Per Element @ $T_j=100^\circ\text{C}$	I_R	10.0 1000.0							uAmp
I^2t Rating for fusing ($t<8.3\text{ms}$)	I^2t	373							A^2S
Typical Thermal Resistance (Note 2)	$R_{\theta JC}$	2.5							$^\circ\text{C}/\text{W}$
Operating Temperature Range	T_j	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150							$^\circ\text{C}$

NOTES : 1. Suffix "W" for wire type.
2. Typical Thermal Resistance: Heat-sink case mounted.

RATINGS AND CHARACTERISTIC CURVES (GBPC15W SERIES)

Fig.1 - MAXIMUM FORWARD SURGE CURRENT

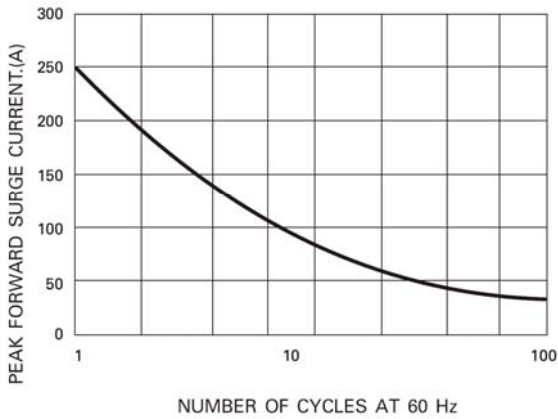


Fig.2 - DERATING CURVE FOR
OUTPUT RECTIFIED CURRENT

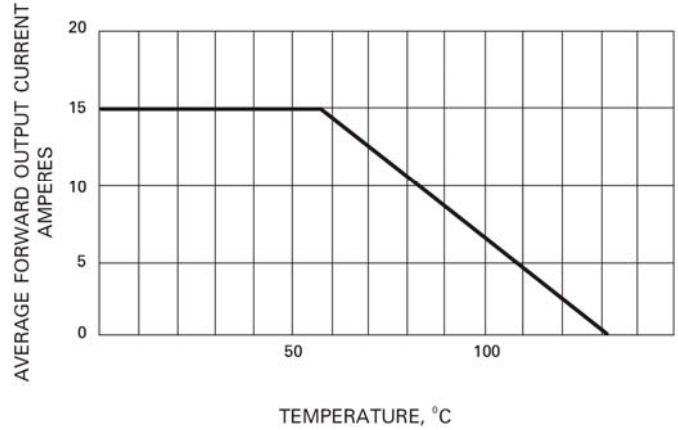


Fig.3 - TYPICAL FORWARD
CHARACTERISTICS

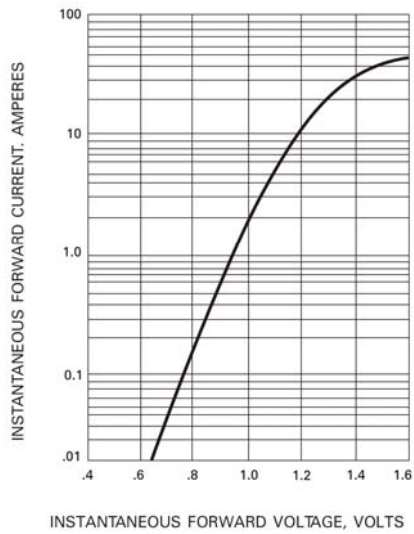


Fig.4 - TYPICAL REVERSE
CHARACTERISTICS

