

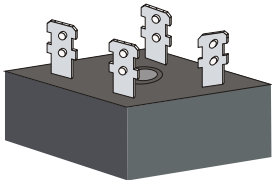


WANGFENG ELECTRON

旺峰电子

GBPC50005 THRU GBPC5010

SINGLE PHASE 50.0 AMP BRIDGE RECTIFIERS



FEATURES

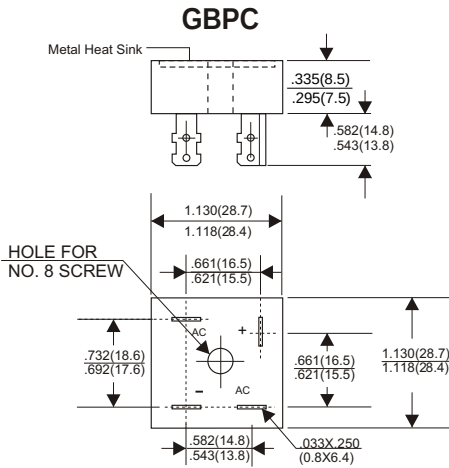
- * Superior thermal design
- * 450 amperes surge capability
- * Mounting: Hole thru for #8 screw
- * Case: Epoxy case with Heat Sink internally Mounted in the Bridge encapsulation

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

50.0 Ampere



GBPC

Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS								
Rating 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	GBPC50005	GBPC5001	GBPC5002	GBPC5004	GBPC5006	GBPC5008	GBPC5010	UNITS
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Forward Rectified Current .375"(9.5mm) Lead Length at Tc=50°C	50.0							A
Peak Forward Surge Current, 8.3 ms single half sine-wave superimposed on rated load (JEDEC method)	450							A
Maximum Forward Voltage Drop per Bridge Element at 25A D.C.	1.2							V
Maximum DC Reverse Current Ta=25°C	10							µA
at Rated DC Blocking Voltage Ta=100°C	100							µA
Operating Temperature Range, Tj	-65 — +150							°C
Storage Temperature Range, Tstg	-65 — +150							°C

RATING AND CHARACTERISTIC CURVES (GBPC50005 THRU GBPC5010)

FIG.1-TYPICAL FORWARD CURRENT
DERATING CURVE

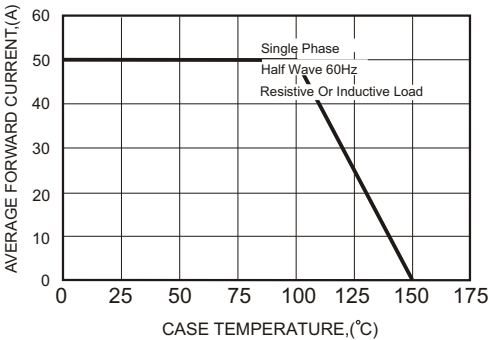


FIG.2-MAXIMUM NON-REPETITIVE FORWARD
SURGE CURRENT

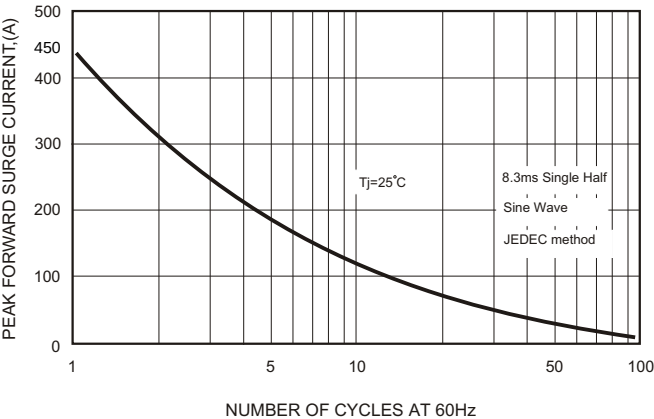


FIG.3-TYPICAL FORWARD
CHARACTERISTICS

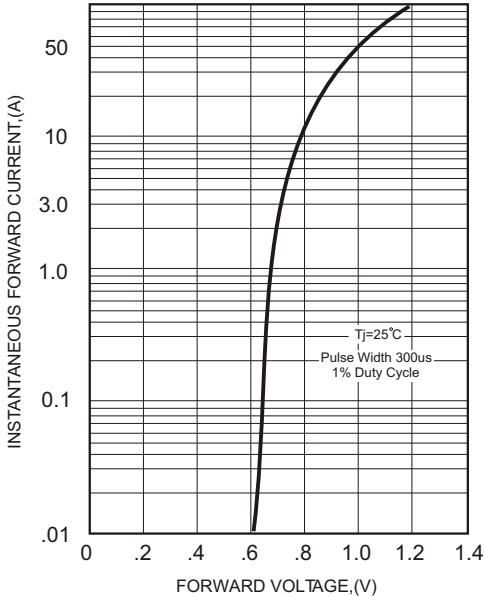


FIG.4-TYPICAL REVERSE
CHARACTERISTICS

