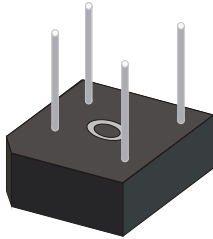


GBPC50005W THRU GBPC5010W

SINGLE PHASE 50.0 AMP BRIDGE RECTIFIERS



FEATURES

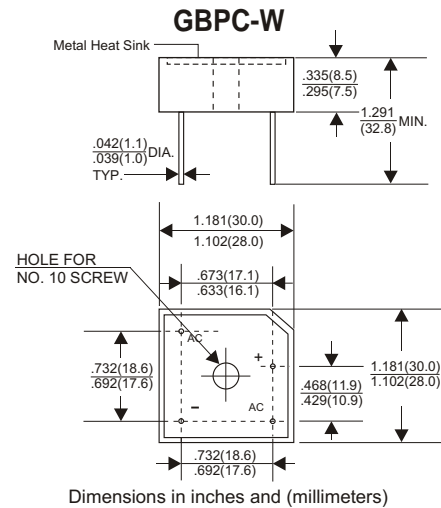
- * Superior thermal design
- * 450 amperes surge capability
- * Mounting: Hole thru for #8 screw

VOLTAGE RANGE

50 to 1000 Volts

CURRENT

50.0 Ampere



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	GBPC50005W	GBPC5001W	GBPC5002W	GBPC5004W	GBPC5006W	GBPC5008W	GBPC5010W	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 (GBPC50005W THRU GBPC5010W)

FIG.1-TYPICAL FORWARD CURRENT DERATING CURVE

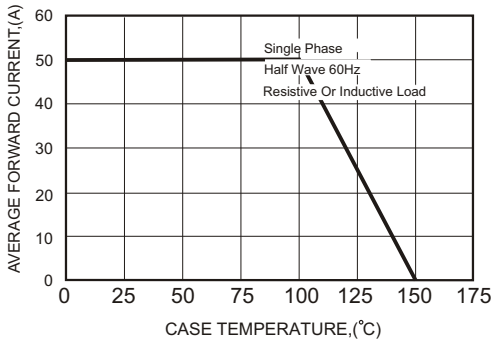


FIG.2-MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT

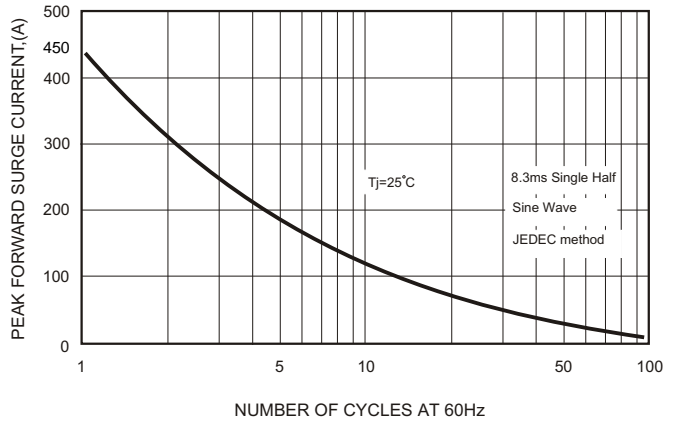


FIG.3-TYPICAL FORWARD CHARACTERISTICS

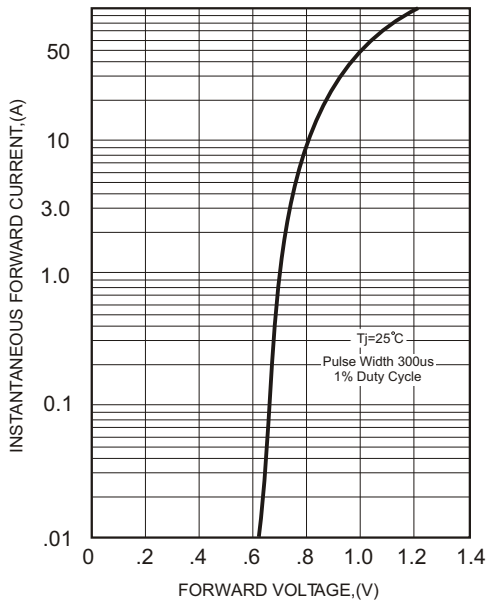


FIG.4-TYPICAL REVERSE CHARACTERISTICS

