DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC50005 THRU GBPC5010

TECHNICAL SPECIFICATIONS OF SINGLE-PHASE GLASS PASSIVATED BRIDGE RECTIFIER

VOLTAGE RANGE - 50 to 1000 Volts

FEATURES

- * Plastic case with heatsink for Maximum Heat Dissipation
- * Diffused Junction
- * High current capability

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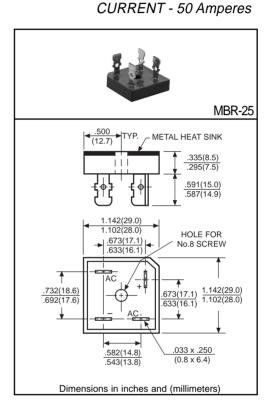
- * Surge overload ratings 450 Amperes
- * Low forward voltage drop
- * High Reliability
- * Glass passivated junction

MECHANICAL DATA

- * Case: Molded plastic with heatsink
- * Epoxy: UL 94V-0 rate flame retardant
- * Terminals: Plated .25"(6.35mm) Faston lugs, Solderable per MIL-STD-202E, Method 208 guaranteed
- * Polarity: As marked
- * Mounting position: Any
- * Weight: 25 grams approx.

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

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



			GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	GBPC	L
		SYMBOL	50005	5001	5002	5004	5006	5008	5010	UNITS
Maximum Recurrent Peak Reverse Voltage		Vrrm	50	100	200	400	600	800	1000	Volts
Maximum RMS Bridge Input Voltage		Vrms	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage		VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Output Current at Tc =55 $^{\circ}\mathrm{C}$		lo	50							Amps
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)		Ifsm	450							Amps
Maximum Forward Voltage Drop per element at 25A DC		Vf	1.1							Volts
Maximum DC Reverse Current at Rated	@TA = 25°C	IR	10							– μAmps
DC Blocking Voltage per element	@TA = 100°C		500							
Operating and Storage Temperature Range		TJ,TSTG	-55 to +150							٥C

RATING AND CHARACTERISTIC CURVES (GBPC50005 THRU GBPC5010)

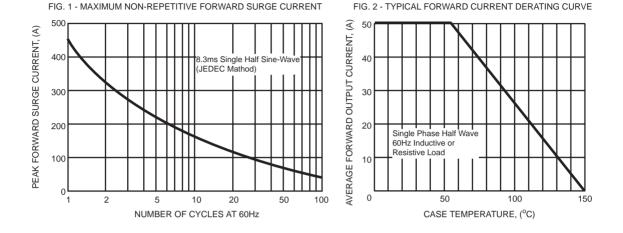


FIG. 3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

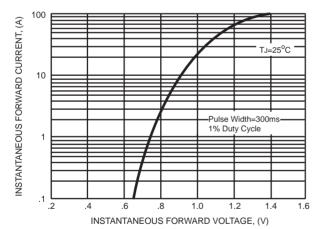
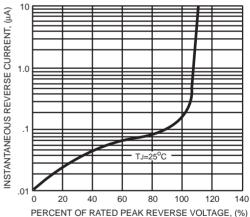


FIG. 4 - TYPICAL REVERSE CHARACTERISTICS



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