

DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC3005 THRU GBPC310

TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 3.0 Amperes

FEATURES

- * Ideal for printed circuit boardd
- * High surge current capability
- * Low forward voltage drop
- * Glass passivated junction

MECHANICAL DATA

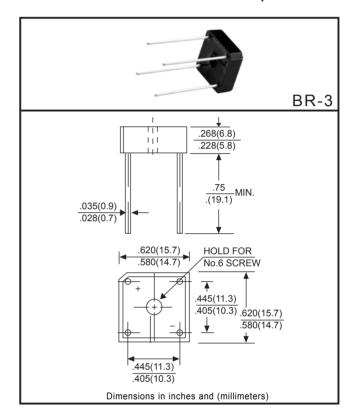
* Case: Molded plastic

* Epoxy: UL 94-V0 rate flame retardant
* Terminals: Solder plated solderable per
MIL-STD-750, Method 2026

* Polarity: As marked * Mounting position: Any * Weight: 3.36 grams

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%.

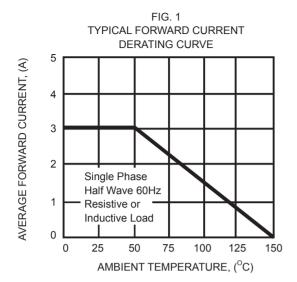


	SYMBOL	GBPC 3005	GBPC 301	GBPC 302	GBPC 304	GBPC 306	GBPC 308	GBPC 310	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at T _A = 50 °C	lo	3.0						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	40						Amps	
Maximum Instantaneous Forward Voltage at 1.5 A DC	VF	1.1					Volts		
Maximum DC Reverse Current at Rated DC Blocking Voltage @TJ = 25°C @TJ = 125°C	- IR	10 500						μAmps	
Typical Junction Capatiance (Note1)	Cl	30						pF	
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150						°C	

NOTES: 1. Measured at 1 MHz and applied reverse voltage of 4.0 volts.

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RATING AND CHARACTERISTIC CURVES (GBPC3005 THRU GBPC310)



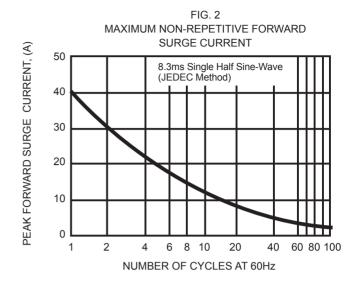
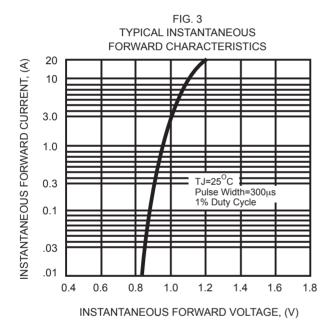
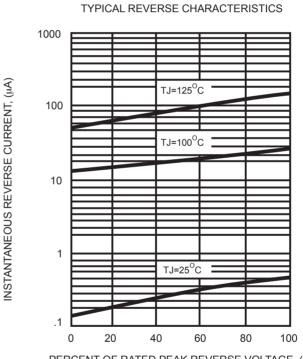


FIG. 4





PERCENT OF RATED PEAK REVERSE VOLTAGE, (%)

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