

## DC COMPONENTS CO., LTD.

RECTIFIER SPECIALISTS

GBPC25005 THRU GBPC2510

# TECHNICAL SPECIFICATIONS OF GLASS PASSIVATED BRIDGE RECTIFIER VOLTAGE RANGE - 50 to 1000 Volts CURRENT - 25 Amperes

#### **FEATURES**

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

#### **MECHANICAL DATA**

\* Case: Molded plastic

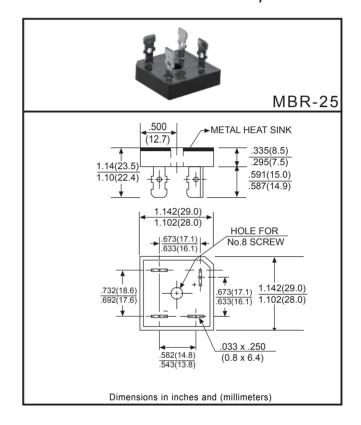
\* Epoxy: UL 94-V0 rate flame retardant
\* Terminals: Solder plated solderable per
MIL-STD-750, Method 2026

NiiE-01D-750, i ∆s marked

\* Polarity: As marked \* Mounting position: Any \* Weight: 25 grams

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

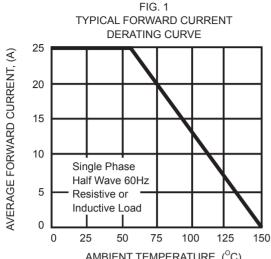
Ratings at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

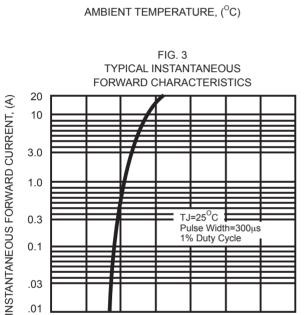


	SYMBOL	GBPC 25005		GBPC 2502	GBPC 2504	GBPC 2506	GBPC 2508	GBPC 2510	UNITS
Maximum Recurrent Peak Reverse Voltage	VRRM	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	VRMS	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	VDC	50	100	200	400	600	800	1000	Volts
Maximum Average Forward Rectified Current at TA = 55°C	lo	25						Amps	
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load (JEDEC Method)	IFSM	350						Amps	
Maximum Instantaneous Forward Voltage at 12.5 A DC	VF	1.1				Volts			
Maximum DC Reverse Current at Rated  DC Blocking Voltage  @TJ = 25°C  @TJ = 125°C	<b>—</b> IR	10 1000						μAmps	
I <sup>2</sup> t Rating for Fusing (t<8.3msS)	l <sup>2</sup> t	508.4					A <sup>2</sup> s		
Operating and Storage Temperature Range	TJ,TSTG	-55 to +150					°C		

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### **RATING AND CHARACTERISTIC CURVES (GBPC25005 THRU GBPC2510)**





.01

0.4

0.6

0.8

1.0

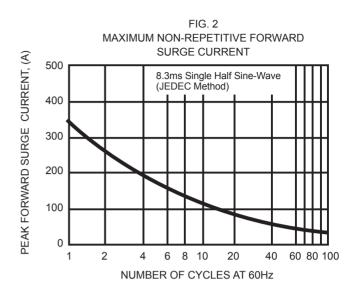
1.2

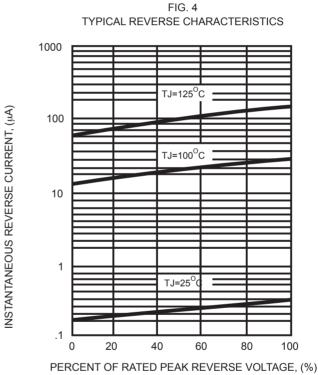
INSTANTANEOUS FORWARD VOLTAGE, (V)

1.4

1.6

1.8





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