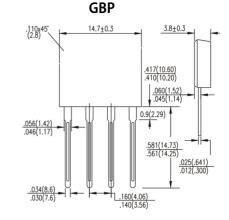


GBP3005 THRU GBP310

GLASS PASSIVATED BRIDGE RECTIFIERS REVERSE VOLTAGE - 50 to 1000Volts FORWARD CURRENT - 3.0 Amperes

FEATURES

- · UL recognized file # E149311
- · Surge overload rating-80 amperes peak
- · Ideal for printed circuit board
- · Plastic material has Underwriters Labooratory Flammability Classification 94V-O
- · Mounting position: Any
- · Lead: Silver Plated Cooper Lead.



Dimensions in inches and (millimeters)

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified. Resistive or inductive load, 60 Hz.

For capacitive load, derate current by 20%.

		GBP3005	GBP301	GBP302	GBP304	GBP306	GBP308	GBP310	UNITS
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	٧
Maximum RMS Bridge Input Voltage	V _{RMS}	35	70	140	280	420	560	700	٧
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	٧
Maximum Average Forward Output Current @ ^T A=25°C	V _(AV)	3.0							Α
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I _{FSM}	80						Α	
Maximum DC Forward Voltage drop per element at 1.0A DC	V _F	1.1						٧	
Maximum DC Reverse Current at rated @ T _A =25°C	I _R	10							μΑ
DC Blocking Voltage Per Element @TA=100°C	1					mA			
I ² t Rating for fusing(t<8.3ms)	l ² †	10							A ² S
Operating Temperature Range	T_J	-55 to +125							°C
Storage Temperature Range	T _{STG}	-55 to +150						°C	

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RATINGS AND CHARACTERISTIC CURVES GBP3005 THRU GBP310

Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

3.0

2.0

40

60

80

100

120

140

AMBIENT TEMPERATURE, °C

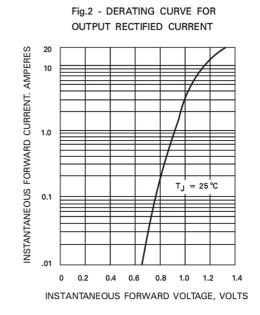
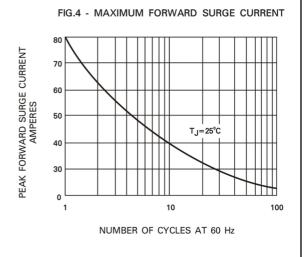


Fig.3 - TYPICAL FORWARD **CHARACTERISTICS** 10 INSTANTANEOUS REVERSE CURRENT, MICROAMPERES 1.0 25 °C 0.1 .01 0 20 40 60 80 100 120 140 PERCENT OF RATED PEAK

REVERSE VOLTAGE



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