

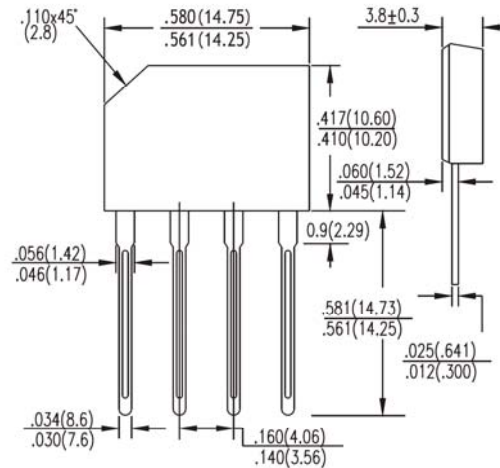
SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIERS

GBP2005 thru GBP210 50 to 1000 V 2.0 A

FEATURES

- Surge overload rating - 50 amperes peak
- Ideal for printed circuit board
- The plastic material has Underwriters Laboratory
- Flammability Classification 94V-0
- Mounting Position: Any

GBP



Dimensions in inches and (millimeters)

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%.

		GBP2005	GBP201	GBP202	GBP204	GBP206	GBP208	GBP210	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	Volts
Maximum RMS Voltage	V_{RMS}	35	70	140	280	420	560	700	Volts
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	Volts
Maximum Average Forward Output Current at @ $T_A=50^\circ C$	I_o	2.0							Amp
Peak Forward Surge Current, 8.3ms single half-sine-wave superimposed on rated load	I_{FSM}	50							Amp
Maximum DC Forward Voltage drop per element at 2.0A DC	V_F	1.1							Volts
Maximum Reverse Current at Rated DC Blocking Voltage per Element	I_R	10							uAmp
Maximum Reverse Current at Rated 0 DC Blocking Voltage per Element $T_A=100^\circ C$	I_R	1.0							mAmp
Operating Temperature Range	T_J	-55 to +150							°C
Storage Temperature Range	T_{STG}	-55 to +150							°C

RATING AND CHARACTERISTICS CURVES (GBP2005 THRU GBP210)

FIG. 1 - FORWARD CURRENT DERATING CURVE

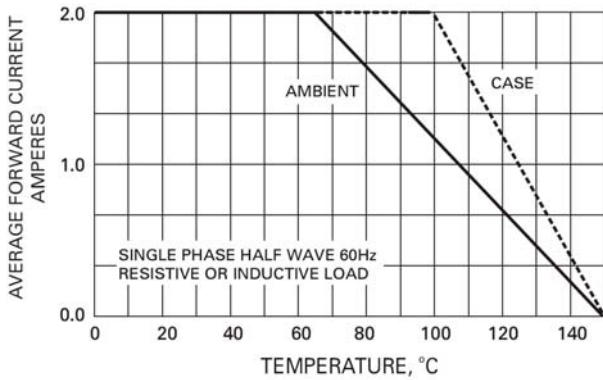


FIG. 2 - MAXIMUM NON-REPETITIVE SURGE CURRENT

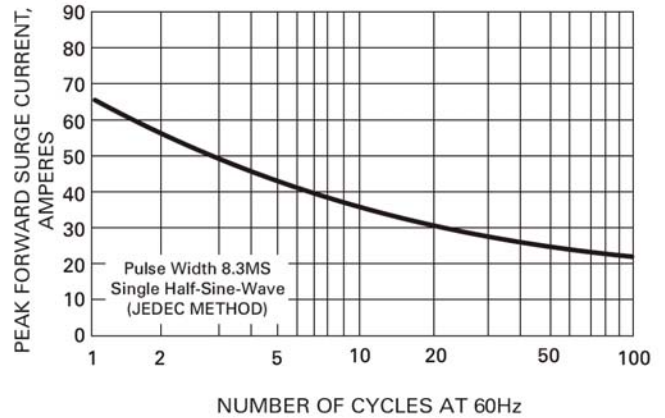


FIG. 3 - TYPICAL JUNCTION CAPACITANCE

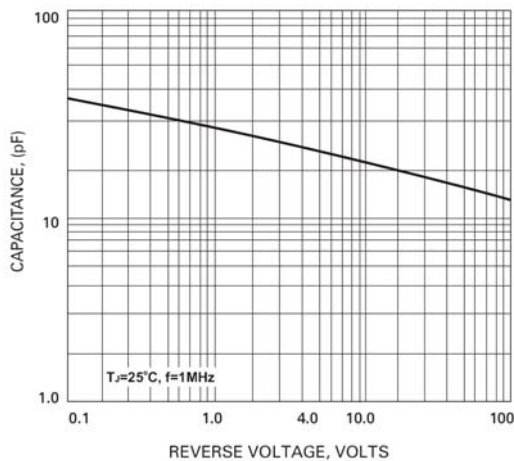


FIG. 4 - TYPICAL FORWARD CHARACTERISTICS

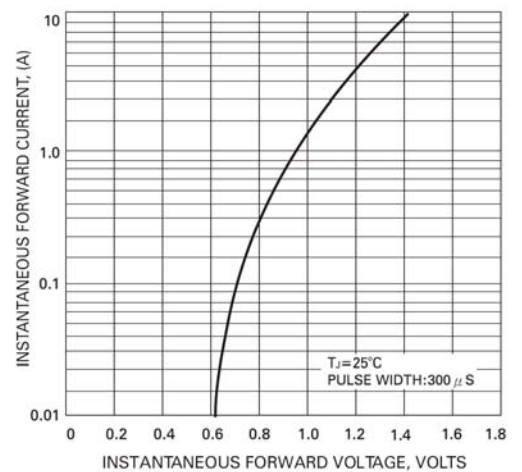


FIG. 5 - TYPICAL REVERSE CHARACTERISTICS

