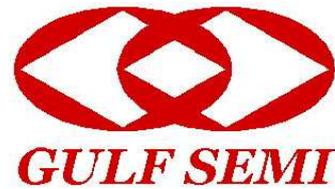


GBP005 THRU GBP10

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

Current: 2.0A



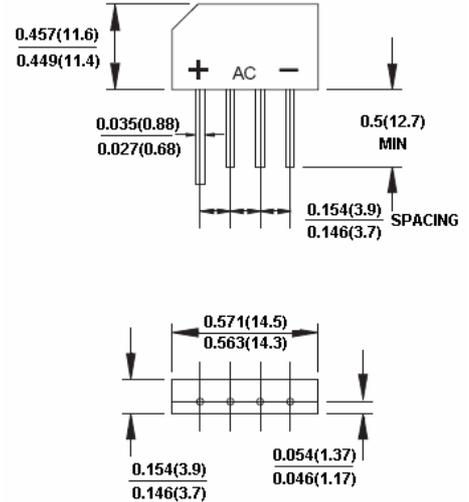
Features

Ideal for printed circuit board
Reliable low cost construction utilizing molded plastic technique
Surge overload rating: 50 A peak

Mechanical Data

Terminal: Plated leads solderable per MIL-STD 202E,
Method 208C
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any

KBP



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated,
for capacitive load, derate current by 20%)

	Symbol	GBP 005	GBP 01	GBP 02	GBP 04	GBP 06	GBP 08	GBP 10	units
Maximum repetitive peak reverse voltage	V _{rrm}	50	100	200	400	600	800	1000	V
Maximum RMS voltage	V _{rms}	35	70	140	280	420	560	700	V
Maximum DC blocking voltage	V _{dc}	50	100	200	400	600	800	1000	V
Maximum average forward rectified output current Ta = 50°C	I _{f(av)}	2.0							A
Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method)	I _{fsm}	50							A
Maximum instantaneous forward voltage drop per leg at 2.0A	V _f	1.1							V
Rating for fusing (t < 8.3ms)	I ² t	15							A ² Sec
Maximum DC reverse current at rated DC blocking voltage per leg Ta = 25°C Ta = 125°C	I _r	10.0 1.0							μA mA
Maximum thermal resistance per leg (Note1)	R _{th(ja)} R _{th(jc)}	30 11							°C/W
Typical junction capacitance per leg at 4.0V,1MHz	C _j	25							pF
Operating junction and storage temperature range	T _j , T _{stg}	-55 to +150							°C

Note:

1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.47 x 0.47" (12 x 12mm) copper pads

RATINGS AND CHARACTERISTIC CURVES GBP005 THRU GBP10

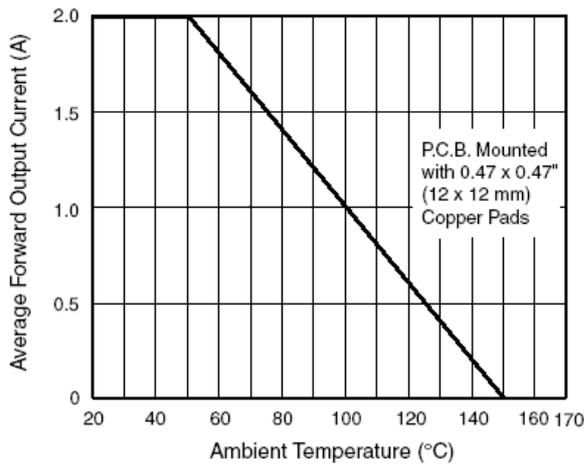


Figure 1. Derating Curve Output Rectified Current

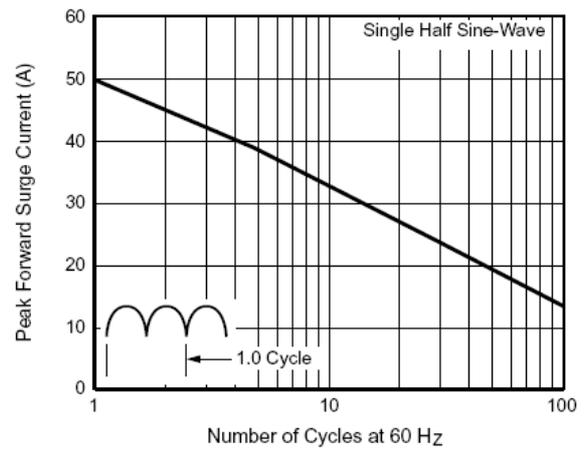


Figure 2. Maximum Non-Repetitive Peak Forward Surge Current Per Leg

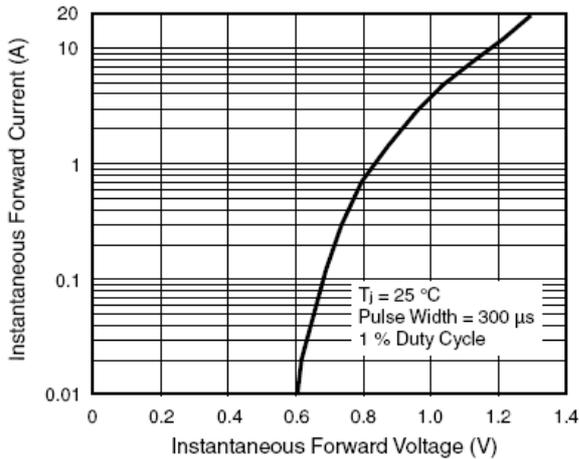


Figure 3. Typical Forward Characteristics Per Diode

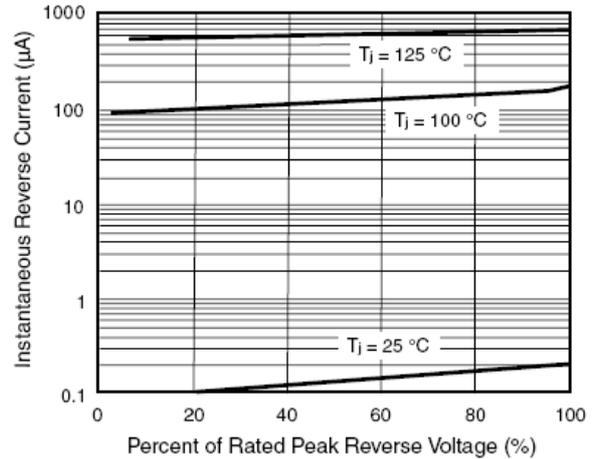


Figure 4. Typical Reverse Leakage Characteristics Per Diode

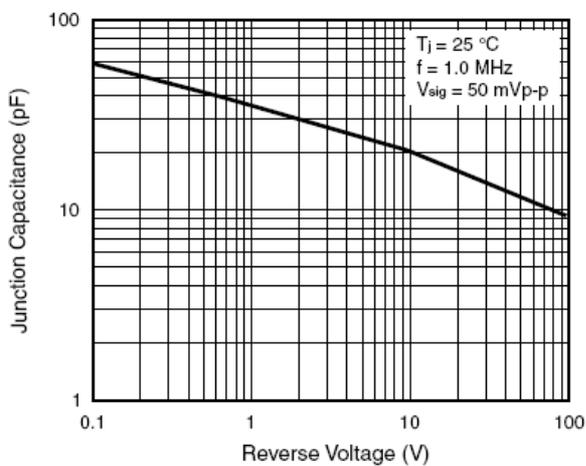


Figure 5. Typical Junction Capacitance Per Diode