

GBP005 THRU GBP10

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIER

Voltage: 50 to 1000V

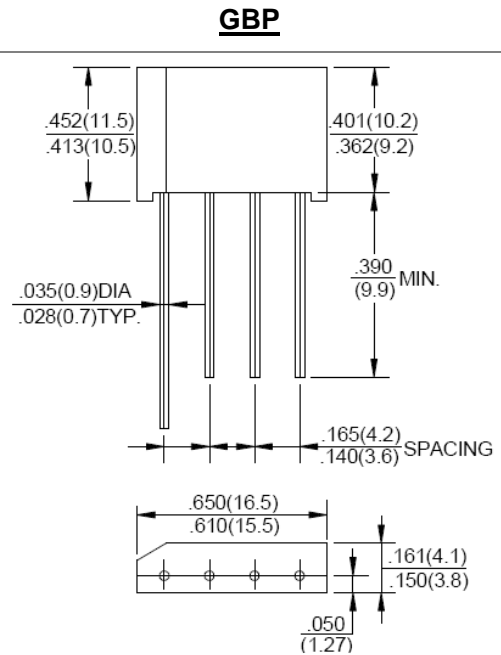
Current: 2.0A

Features

Ideal for printed circuit board
Surge overload rating: 50 A peak

Mechanical Data

Terminal: Plated leads solderable per J-STD-002
Case: UL-94 Class V-0 recognized Flame Retardant Epoxy
Polarity: Polarity symbol marked on body
Mounting position: any



Dimensions in millimeters

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

(single-phase, half -wave, 60HZ, resistive or inductive load rating at 25°C, unless otherwise stated)

	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 T _a = 40°C	I _{f(av)}	1.5							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 1.5A	V _f	1.1							V
Maximum DC reverse current at rated DC blocking voltage per leg T _j = 25°C T _j = 100°C	I _r	10.0 1.0							μA mA
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:

RATINGS AND CHARACTERISTIC CURVES GBP005 THRU GBP10

FIG.1-DERATING CURVE OUTPUT RECTIFIED CURRENT

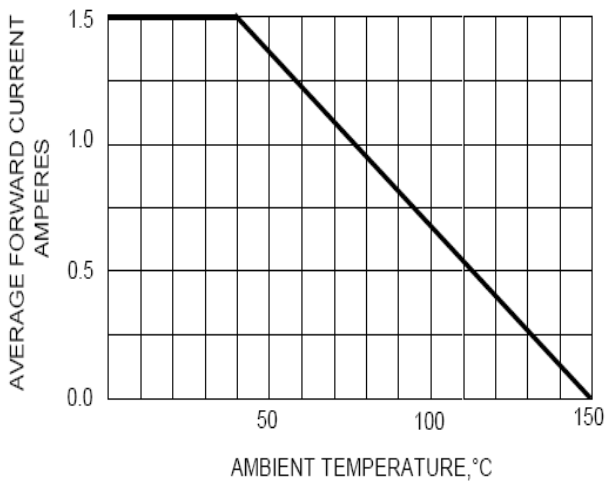


FIG.2-MAXIMUM FORWARD SURGE CURRENT

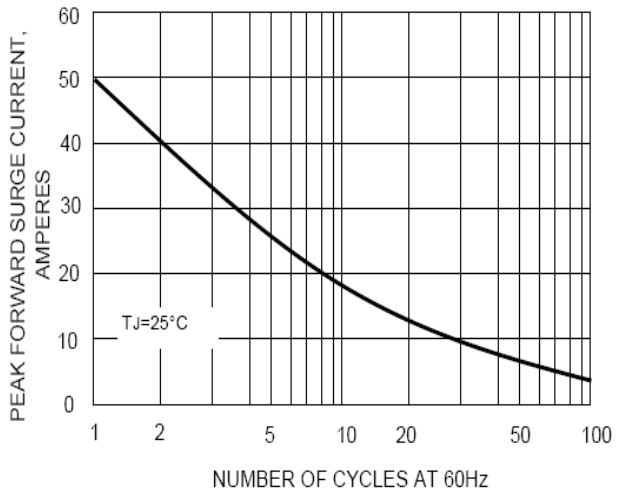


FIG.3-TYPICAL FORWARD CHARACTERISTICS

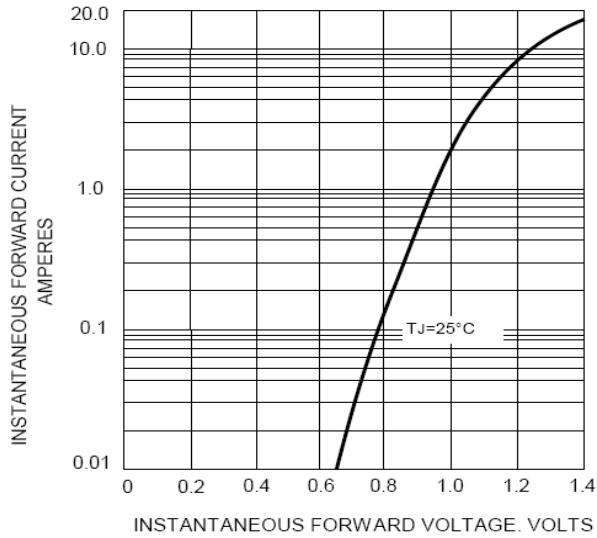


FIG.4-TYPICAL REVERSE CHARACTERISTICS

