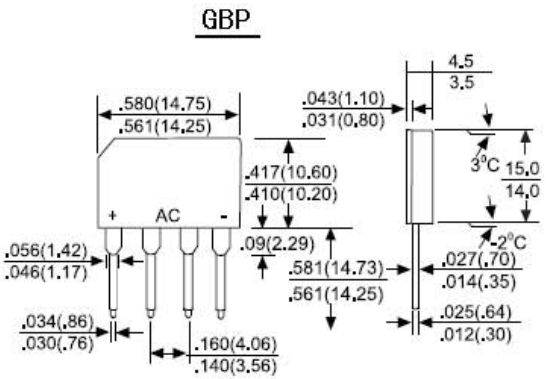
GBP2005 ~ GBP210

Miniature Glass Passivated Single-Phase Bridge Rectifiers
Reverse Voltage 50 to 1000 Volta , Forward Current 2.0 Ampere

FEATURES

- Plastic material has Underwriters Laboratory Flammability Classification 94V-O
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- Surge overload rating : 50 Amperes peak

Unit: inch (mm)



MECHANICAL DATA

Terminals: Leads solderable per MIL-STD-202, Method 208

Mounting position: Any

Weight: 0.06 ounce, 1.7 grams

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°Cambient temperature unless otherwise specified. Resistive or inductive load, 60Hz.
For Capacitive load derate current by 20%.

	GBP2005	GBP201	GBP202	GBP204	GBP206	GBP208	GBP210	UNIT
Maximum Recurrent Peak Reverse Voltage	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	V
Maximum Average Rectified Output Current at 50°C Ambient.	2.0							A
Peak One Cycle Surge Overload Current	50.0							A
Maximum Instantaneous Forward Voltage Drop per Bridge element at 1.0A dc	1.1							V
Maximum (Total Bridge) Reverse Leakage at rated T_A=25° CDc Blocking Voltage per element T_A=100°C	5.0 500							μA
I2t Rating for fusing (t<8.35ms)	15.0							A^2S
Typical junction capacitance per leg (Note 1)	25.0							pF
Typical Thermal Resistance per leg (Note 2) RΘJA RΘJL	32.0 13.0							°C/W
Operating Temperature Range, T_J	-55 to +150							°C
Storage Temperature Range,TSTG	-55 to +150							°C

NOTES:

1. Measured at 1.0MHZ and applied reverse voltage of 4.0 volts
2. 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.

FIG.1 - FOR WARD CURRENT DERATING CURVE

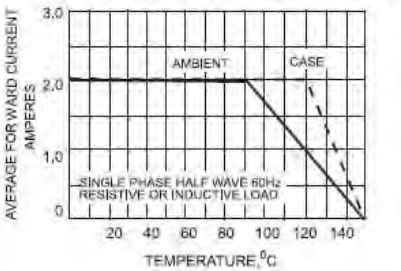


FIG.2-MAXIMUM NON-REPETITIVE

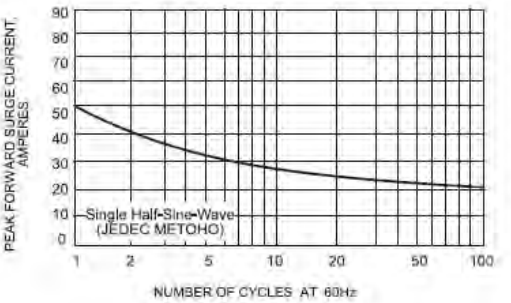


FIG.3 - TYPICAL JUNCTION GAPACITANCE

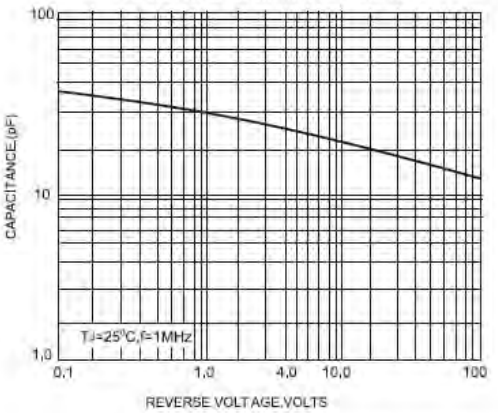


FIG.4 - TYPICAL FORWARD CHARACTERISTICS

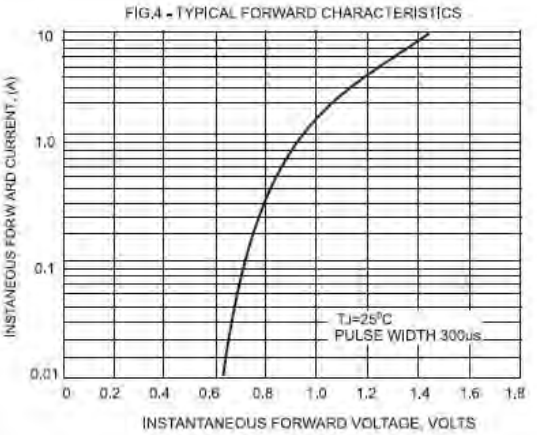


FIG.5-TYPICAL REVERSE CHRACTERISTICS