

CURRENT 3.0 Ampere
VOLTAGE RANG 50 to 1000 Volts

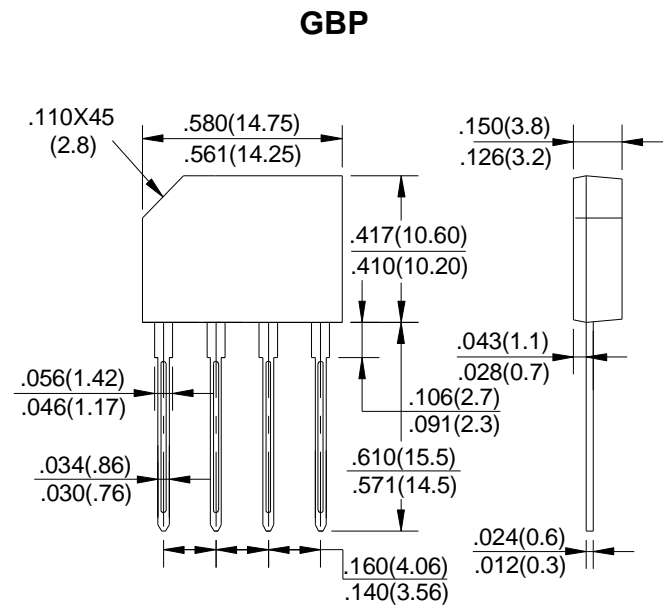
GBP3005 THRU GBP310

Features

- This series is SGS listed under the Recognized Component Index, file number SZXEC1902259902
- Ideal for printed circuit board mounting
- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Built-in printed circuit board stand-offs
- High case dielectric strength
- High temperature soldering guaranteed 265°C /10 seconds at 5 lbs (2.3kg) tension

Mechanical Data

Case: Reliable low cost construction utilizing molded plastic technique
 Terminals: Plated leads solderable per MIL-STD-202, Method 208
 Mounting Position: Any
 Weight: 0.065 ounce, 2.2 grams (approx)



Dimensions in millimeters(1mm =0.0394")

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	V
Maximum RMS Bridge Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	60	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ $T_A=25^\circ C$	$V_{(AV)}$	3.0							A
Peak Forward Surge Current 8.3 ms single half sine-wave superimposed on rated load	I_{FSM}	80							A
Maximum DC Forward Voltage drop per element at 1.5A DC	V_F	1.1							V
Maximum DC Reverse Current at rated @ $T_A=25^\circ C$ DC Blocking Voltage Per Element @ $T_A=100^\circ C$	I_R	10 1							μA mA
I^2t Rating for fusing($t<8.3ms$)	I^2t	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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Rating and Characteristic Curves ($T_A=25^{\circ}\text{C}$ Unless otherwise noted)

Fig.1 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

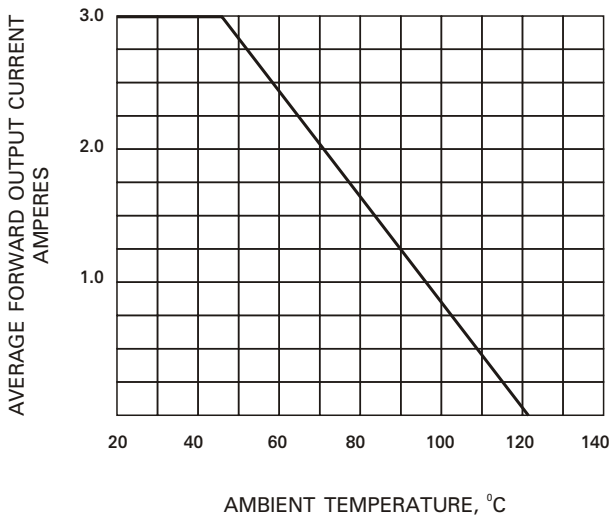


Fig.2 - DERATING CURVE FOR OUTPUT RECTIFIED CURRENT

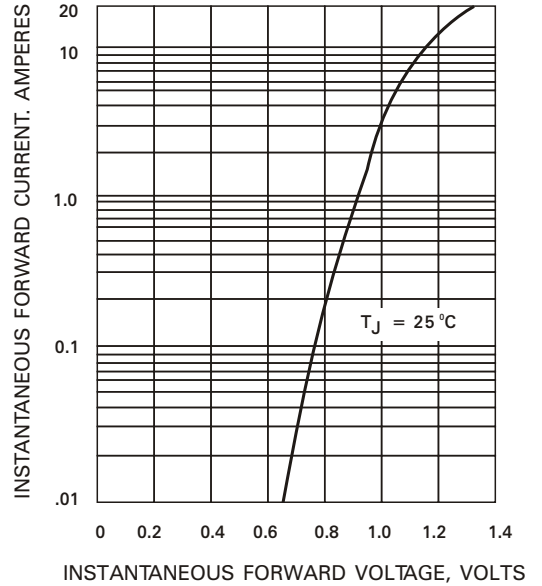


Fig.3 - TYPICAL FORWARD CHARACTERISTICS

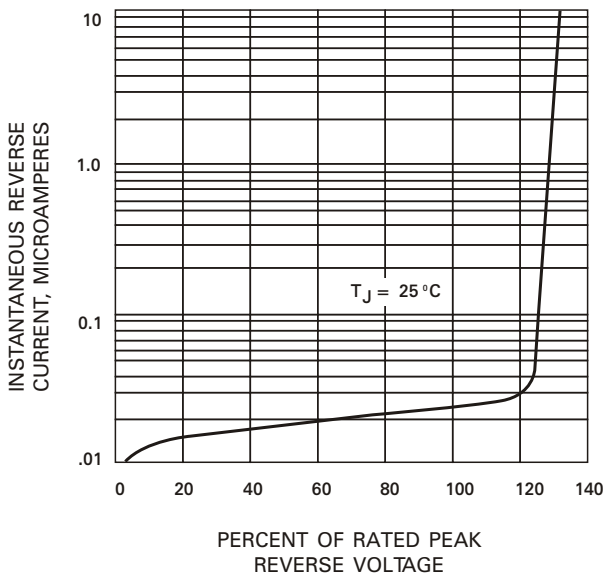


FIG.4 - MAXIMUM FORWARD SURGE CURRENT

