

GBP207

2.0 A Single-Phase Silicon Bridge Rectifier

Rectifier Reverse Voltage 50 to 1000V

GBP

Features

- Ideal for printed circuit board mounting
- This series is UL listed under the Recognized Component Index, file number E484648
- 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 260°C /5 seconds at 5 lbs (2.3kg) tension

Mechanical Data

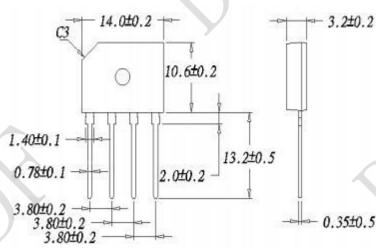
Case: Reliable low cost construction utilizing

molded plastic technique

Terminals: Plated leads solderable per MIL-STD-202,

Method 208 Mounting Position: Any

Weight: 1.35 grams (approx)



Dimensions in inches and (milimeters)

Tel: 0755-83677999

Maximum Ratings & Thermal Characteristics

Rating at 25 C ambient temperature unless otherwise specified, Resistive or Inductive load, 60 Hz. For Capacitive load derate current by 20%.

Parameter Symbol unit 207 Maximum repetitive peak reverse voltage **VRRM** 700 V Maximum RMS bridge input voltage **VRMS** 420 ٧ Maximum DC blocking voltage **VDC** 700 Maximum average forward rectified IF(AV) 2.0 Α output current at TC=100 C (with heatsink) Peak forward surge current single sine-wave **IFSM** 60 Α superimposed on rated load (JEDEC Method) Rating for fusing (t<8.3ms) I^2t 14.91 A²sec Typical thermal resistance per element ReJA C/W 55 (with heatsik) (1) TJ. Operating junction and storage temperature -55 to + 150 °C **TSTG** range

Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified. Resistive or Inductive load, 60Hz. For Capacitive load derate by 20 %.

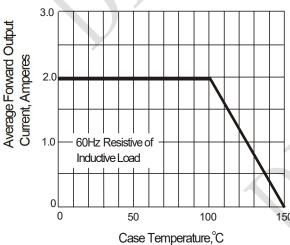
Parameter	Symbol	GBP 207	Unit
Maximum instantaneous forward voltage drop per leg at 2.0A	VF	1.1	V
Maximum DC reverse current at rated TA =25:C DC blocking voltage per element TA =125 C	lR	10 1000	μA

Notes: (1)Thermal resistance from Junction to Ambemt on P.C.board mounting.



Rating and Characteristic Curves (TA=25°c Unless otherwise noted) GBP2005 thru GBP210

Fig. 1 Derating Curve for Output Rectified Current



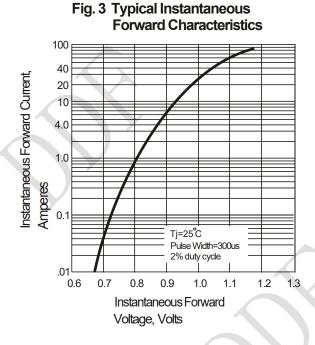


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

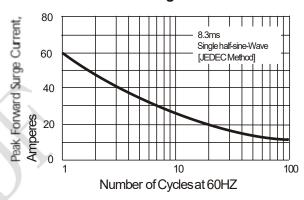


Fig. 4 Typical Reverse Characteristics

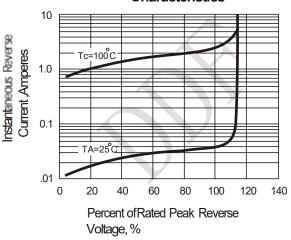


Fig. 5 Typical Junction Capacitance

