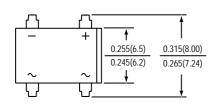


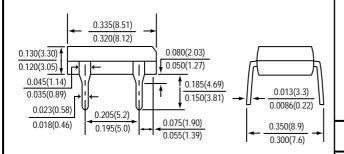
# DB101G THRU DB107G GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

#### **DFM**





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#### **FEATURES**

- \* This series is UL listed under the Recognized Component Index, file number E-96005
- \* Surge overload rating of 50 Amperes peak
- \* Ideal for printed circuit board
- \* Reliable low cost construction utilizing molded plastic technique
- \* High temperature soldering guaranteed: 260°C/10 seconds, 0.375" (9.5mm) lead length, 5lbs. (2.3 kg) tension
- Plastic package has Underwriters Laboratory Flammability Classification 94V-0

### **MECHANICAL DATA**

 $\textbf{Case}: \textbf{JEDEC} \ \textbf{DFM} \ \textbf{molded} \ \textbf{plastic} \ \textbf{body} \ \textbf{over} \ \textbf{passivated} \ \textbf{junction}$ 

Terminals: Plated leads solderable per MIL-STD-750,

Method 2026

Polarity: Color band denotes cathode end

Mounting Position : Any Weight : 0.04 ounes , 1.0 gram

\*Dimensions in inches and (millimeters)

#### MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

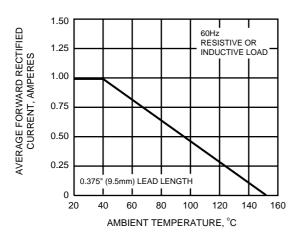
| Ratings at 25 °C ambient temperature   | SYMBOLS          | DB          |      |      |      |      |      |       | UNITS |
|--|------------------|-------------|------|------|------|------|------|-------|-------|
| unless otherwise specified.  | STIMBULS         | 101G        | 102G | 103G | 104G | 105G | 106G | 107G  | UNITS |
| Maximum repetitive peak reverse voltage  | VRRM             | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | Volts |
| Maximum RMS voltage  | VRMS             | 35          | 70   | 140  | 280  | 420  | 560  | 700   | Volts |
| Maximum DC blocking voltage  | VDC              | 50          | 100  | 200  | 400  | 600  | 800  | 1000  | Volts |
| Maximum average forward rectified current @Ta=40°C   | l (AV)           | 1.0         |      |      |      |      |      |       | Amps  |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | IFSM             | 50          |      |      |      |      |      |       | Amps  |
| Maximum instantaneous forward voltage at 1.0 A   | VF               | 1.1         |      |      |      |      |      | Volts |       |
| Maximum reverse current @TA=25°C at rated DC blocking voltage per element @TA=125°C              | lr               | 10<br>500   |      |      |      |      |      |       | uA    |
| Typical junction capacitance (NOTE 1)  | C1               | 25          |      |      |      |      |      |       | pF    |
| Typical thermal resistance (NOTE 2)  | R ∂ JA<br>R ∂ JL | 40<br>15    |      |      |      |      |      |       | °C/W  |
| Operating junction and storage temperature range   | ТJ,ТSTG          | -55 to +150 |      |      |      |      |      |       | °C    |

NOTES: (1) Measured at 1.0 MHz and applied reverse voltage of 4.0 Volts

<sup>(2)</sup> Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5 X0.5" (13 X 13mm) copper pads

## RATINGS AND CHARACTERISTIC CURVES DB101G THRU DB107G





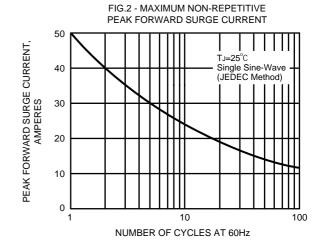


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

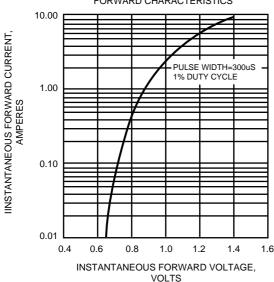


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

