



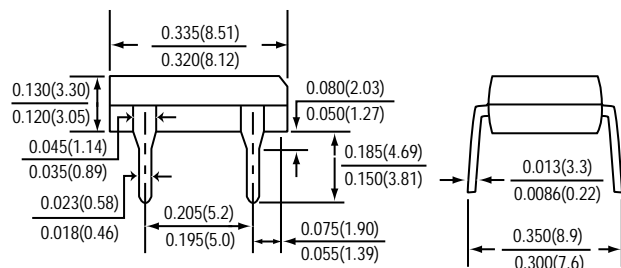
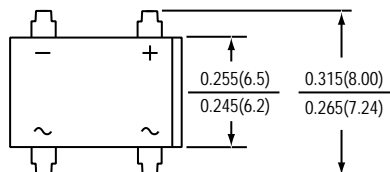
DB101G THRU DB107G

GLASS PASSIVATED SINGLE-PHASE BRIDGE RECTIFIER

Reverse Voltage - 50 to 1000 Volts

Forward Current - 1.0 Ampere

DFM



*Dimensions in inches and (millimeters)



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

Case : JEDEC DFM molded plastic body over passivated junction
Terminals : Plated leads solderable per MIL-STD-750, Method 2026
Polarity : Color band denotes cathode end
Mounting Position : Any
Weight : 0.04 ounces , 1.0 gram

MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

| Ratings at 25°C ambient temperature unless otherwise specified. | SYMBOLS | DB | | | | | | | UNITS |
|--|--------------|-------------|------|------|------|------|------|------|--------|
| | | 101G | 102G | 103G | 104G | 105G | 106G | 107G | |
| 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 | I (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 | IR | 10 500 | | | | | | | uA |
| Typical junction capacitance (NOTE 1) | CJ | 25 | | | | | | | pF |
| Typical thermal resistance (NOTE 2) | RθJA RθJL | 40 15 | | | | | | | °C / W |
| Operating junction and storage temperature range | TJ,TSTG | -55 to +150 | | | | | | | °C |

NOTES : (1) Measured at 1.0 MHz 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 0.5 X0.5" (13 X 13mm) copper pads

RATINGS AND CHARACTERISTIC CURVES DB101G THRU DB107G

FIG.1 - FORWARD CURRENT DERATING CURVE

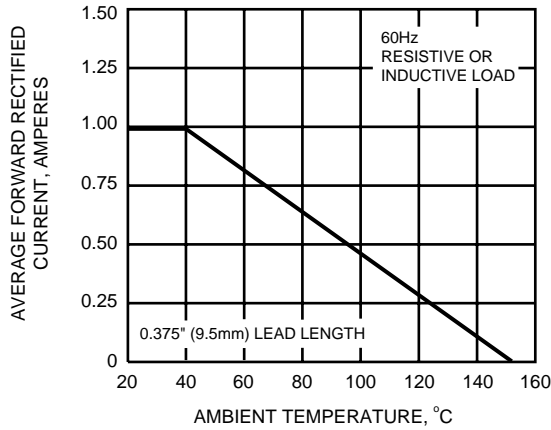


FIG.2 - MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT

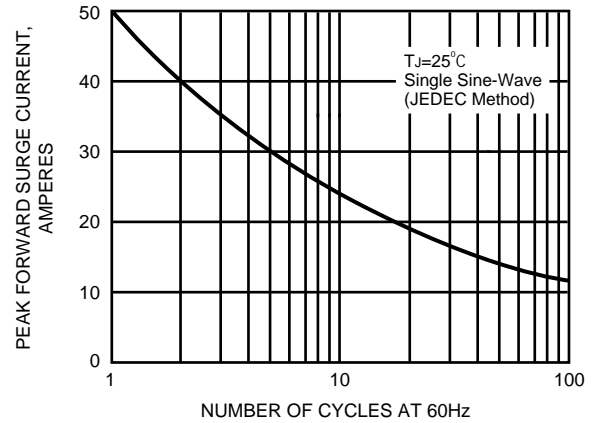


FIG.3 - TYPICAL INSTANTANEOUS FORWARD CHARACTERISTICS

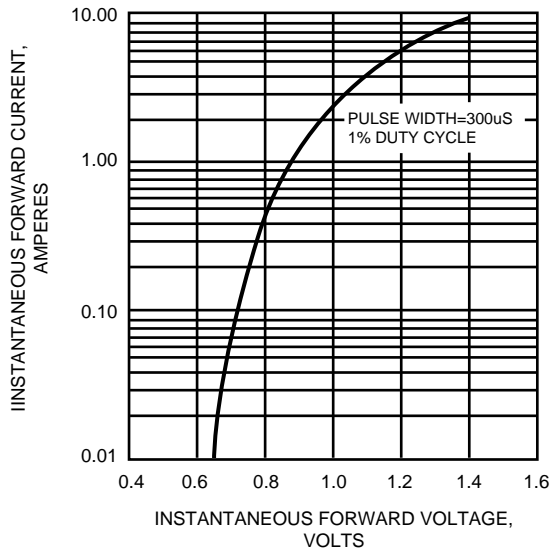


FIG.4 - TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT

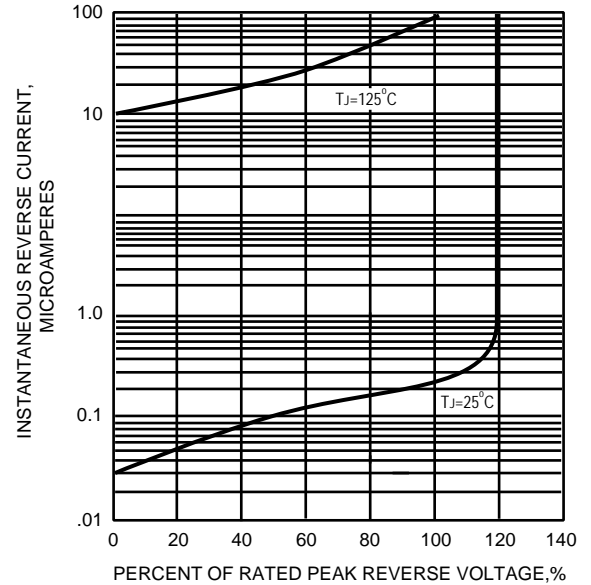


FIG.5 - TYPICAL JUNCTION CAPACITANCE

