

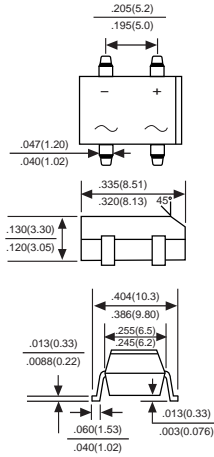


# DB101S THRU DB107S

SINGLE PHASE GLASS PASSIVATED BRIDGE RECTIFIERS

Voltage Range - 50 to 1000 Volts Current - 1.0 Ampere

## DBS



Dimensions in inches and (millimeters)

## FEATURES

- ◆ Ideal for printed circuit board
- ◆ Reliable low cost construction utilizing molded plastic technique
- ◆ High temperature soldering guaranteed:
- ◆ 250\* / 10 seconds / 0.375"(9.5mm) lead length at 5 lbs., (2.3kg)tension
- ◆ Small size, simple installation
- Leads solderable per MIL-STD-202, Method 208
- ◆ High surge current capability

## MECHANICAL DATA

**Case:** Molded plastic body

**Terminals:** Plated leads solderable per MIL-STD-750, Method 2026

**Polarity:** Polarity symbols marked on case

**Mounting Position:** Any

**Weight:** 0.02 ounce, 0.4 grams

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25\* ambient temperature unless otherwise specified.

Single phase half-wave 60Hz, resistive or inductive load, For capacitive load derate current by 20%.

|   | SYMBOLS     | DB101S      | DB102S | DB103S | DB104S | DB105S | DB106S | DB107S | UNITS              |
|---|-------------|-------------|--------|--------|--------|--------|--------|--------|--------------------|
| Maximum repetitive peak reverse voltage   | $V_{RRM}$   | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | VOLTS              |
| Maximum RMS voltage   | $V_{RMS}$   | 35          | 70     | 140    | 280    | 420    | 560    | 700    | VOLTS              |
| Maximum DC blocking voltage   | $V_{DC}$    | 50          | 100    | 200    | 400    | 600    | 800    | 1000   | VOLTS              |
| Maximum average forward rectified current at $T_A=40^*$   | $I_{F(AV)}$ | 1.0         |        |        |        |        |        |        | Amps               |
| Peak forward surge current<br>8.3ms single half sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$   | 50          |        |        |        |        |        |        | Amps               |
| Maximum instantaneous forward voltage drop per bridge element at 1.0A                               | $V_F$       | 1.1         |        |        |        |        |        |        | Volts              |
| Maximum DC reverse current<br>at rated DC blocking voltage $T_A=25^*$<br>$T_A=125^*$                | $I_R$       | 10<br>500   |        |        |        |        |        |        | $\mu A$<br>$\mu A$ |
| Operating temperature range   | $T_J$       | -55 to +150 |        |        |        |        |        |        | $^{\circ}C$        |
| storage temperature range   | $T_{STG}$   | -55 to +150 |        |        |        |        |        |        | $^{\circ}C$        |

NOTES: DBS for surface mount package.

# RATINGS AND CHARACTERISTIC CURVES DB101S THRU DB107S

