

# Product data sheet

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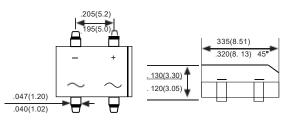


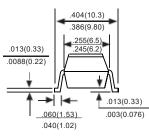
## Features

Ideal for printed circuit board Reliable low cost construction utilizing molded plastic technique High temperature soldering guaranteed: 260°/10 seconds at 5 lbs., (2.3kg) tension Small size, simple installation High surge current capability

## **Mechanical Data**

Case : JEDEC DBS Molded plastic body Terminals : Solder plated, solderable per MIL-STD-750, Method 2026 Polarity : Polarity symbol marking on body Mounting Position : Any Weight : 0.02 ounce, 0.4 grams





Dimensions in inches and (millimeters)

#### **REEL SPECIFICATION**

| P/N           | PKG | QTY  |
|---------------|-----|------|
| DB301S-DB307S | DBS | 1500 |

## **Maximum Ratings And Electrical Characteristics**

Ratings at 25°C ambient temperature unlss otherwise specified.

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

| Parameter   | SYMBOLS | DB301S      | DB302S | DB303S | DB304S    | DB305S | DB306S | DB307S | UNITS    |
|---|---------|-------------|--------|--------|-----------|--------|--------|--------|----------|
| Maximum repetitive peak reverse voltage   | Vrrm    | 50          | 100    | 200    | 400       | 600    | 800    | 1000   | V        |
| Maximum RMS voltage   | Vrms    | 35          | 70     | 140    | 280       | 420    | 560    | 700    | V        |
| Maximum DC blocking voltage   | Vdc     | 50          | 100    | 200    | 400       | 600    | 800    | 1000   | V        |
| Maximum average forward rectified current at $T_A$ =40°C  | lf(AV)  |             |        |        | 3.0       |        |        |        | А        |
| Peak forward surge current,<br>8.3ms single half sine-wave superimposed on<br>rated load (JEDEC Method) | Ifsm    | 85          |        |        |           |        |        | A      |          |
| Maximum instantaneous forward voltage drop per leg at 3.0A  | Vf      |             |        |        | 1.1       |        |        |        | V        |
| Maximum DC reverse currentTa=25°Cat rated DC blocking voltageTa=125°C                                   | R       |             |        |        | 10<br>500 |        |        |        | рА<br>pA |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)  | l2 t    |             |        |        | 10.4      |        |        |        | A2 s     |
| Operating temperature range (Note1)   | CJ      | 25          |        |        |           |        |        | pF     |          |
| Typical Thermal Resistance (Note2)  | Reja    | 110         |        |        |           |        |        | °C/W   |          |
| Operating temperature range   | TJ      | -55 to +150 |        |        |           |        |        | °C     |          |
| storage temperature range   | Тѕтс    |             |        | - {    | 55 to +15 | 0      |        |        | °C       |

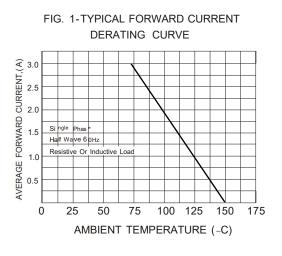
NOTES: 1. Measured at 1.0 MHz and applied reverse voltage of 4.0 V DC.

2. Thermal resistance from junction to ambient mounted on P.C.B. with 0.5\*0.5" (13\*13 mm) copper pads.



DB301S-DB307S Semiconductor

### **Ratings And Characteristic Curves**



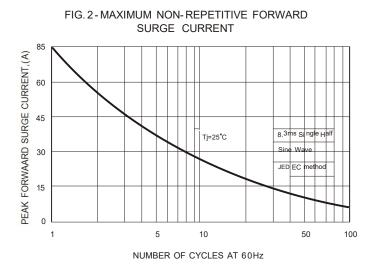


FIG. 3-TYPICAL FORWARD

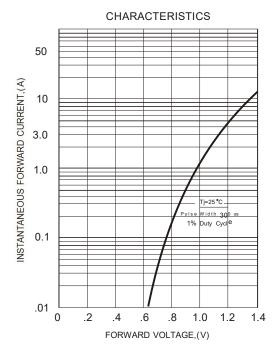
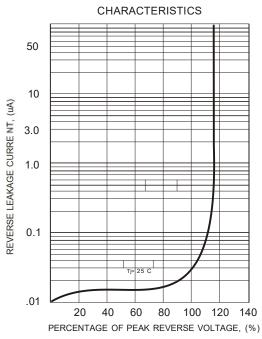


FIG.4-TYPICAL REVERSE





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