

## ■ Features

- The plastic material used carries Underwriters Laboratory flammability recognition 94V-0
- Surge overload ratings to 50 amperes
- Ideal for printed circuit board application
- 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

## ■ Maximum Ratings & Thermal Characteristics

| Parameter   | Symbol             | DB201S       | DB202S | DB203S | DB204S | DB205S | DB206S | DB207S | Unit          |
|---|--------------------|--------------|--------|--------|--------|--------|--------|--------|---------------|
| Maximum repetitive peak reverse voltage   | $V_{RRM}$          | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | V             |
| Maximum RMS bridge input voltage  | $V_{RMS}$          | 35           | 70     | 140    | 280    | 420    | 560    | 700    | V             |
| Maximum DC blocking voltage   | $V_{DC}$           | 50           | 100    | 200    | 400    | 600    | 800    | 1000   | V             |
| Maximum average forward rectified output current at $T_A=40^{\circ}C$                 | $I_{F(AV)}$        | 2.0          |        |        |        |        |        |        | A             |
| Peak forward surge current single sine-wave superimposed on rated load (JEDEC Method) | $I_{FSM}$          | 50           |        |        |        |        |        |        | A             |
| Rating for fusing ( $t < 8.3ms$ )   | $i^2t$             | 10           |        |        |        |        |        |        | $A^2 sec$     |
| Typical thermal resistance per element (1)  | $R_{\theta JA}$    | 58           |        |        |        |        |        |        | $^{\circ}C/W$ |
| Typical junction capacitance per element (2)  | $C_J$              | 25.0         |        |        |        |        |        |        | pF            |
| Operating junction and storage temperature range                                      | $T_J$<br>$T_{STG}$ | -55 to + 150 |        |        |        |        |        |        | $^{\circ}C$   |

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

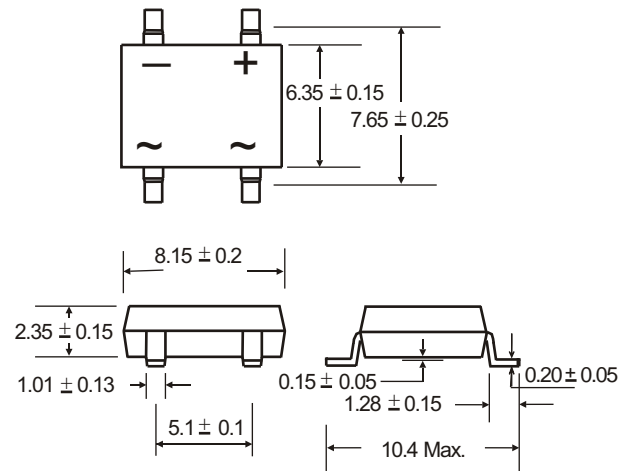
## ■ Electrical Characteristics

| CHARACTERISTICS  | SYMBOL | DB201S    | DB202S | DB203S | DB204S | DB205S | DB206S | DB207S | UNIT    |
|--|--------|-----------|--------|--------|--------|--------|--------|--------|---------|
| Maximum instantaneous forward voltage drop per leg at 2.0A | $V_F$  | 1.1       |        |        |        |        |        |        | V       |
| Maximum DC Reverse Current at Rated DC Blocking Voltage    | $I_R$  | 10<br>500 |        |        |        |        |        |        | $\mu A$ |

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

Thermal resistance from Junction to Ambient on P.C.board mounting.

Measured at 2.0MHz and applied reverse voltage of 4.0 volts.

**DB-S**


Dimensions in inches and (millimeters)



■ Rating and Characteristic Curves (  $T_A=25^{\circ}\text{C}$  Unless otherwise noted )

Fig. 1 Derating Curve for Output Rectified Current

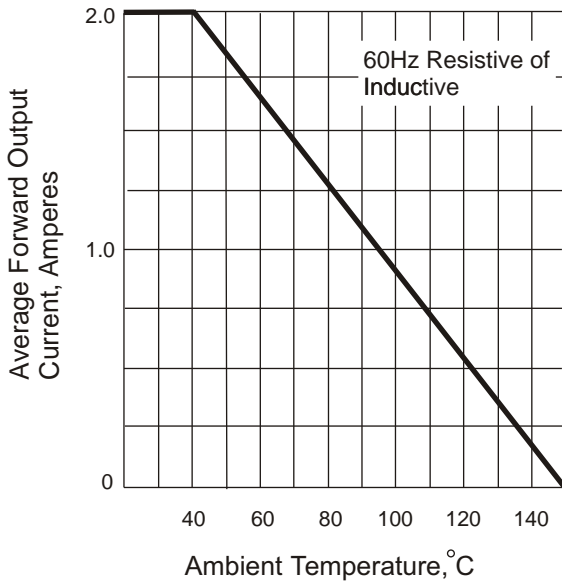


Fig. 2 Maximum Non-repetitive Peak Forward Surge Current

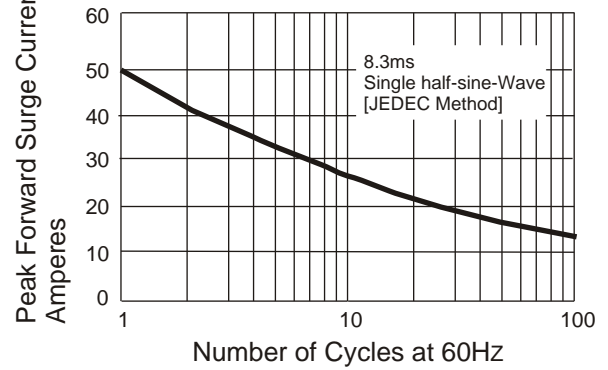


Fig. 3 Typical Instantaneous Forward Characteristics

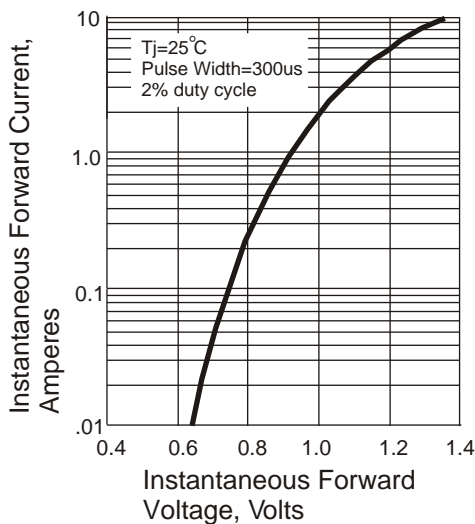


Fig. 4 Typical Revers Characteristics

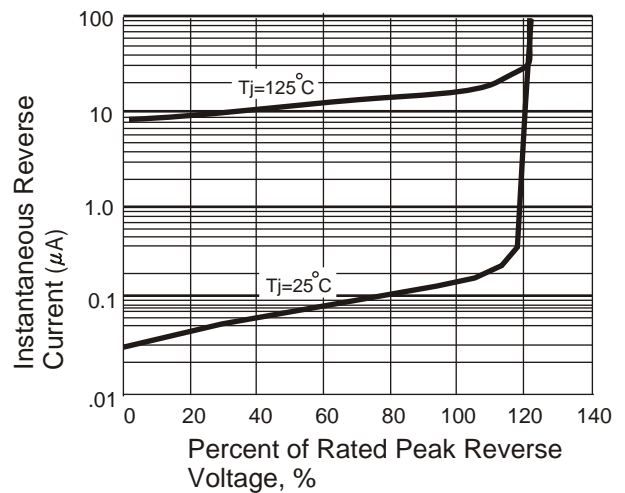
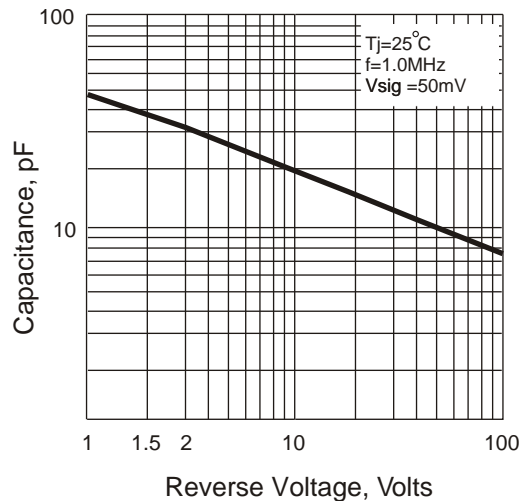


Fig. 5 Typical Junction Capacitance



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