

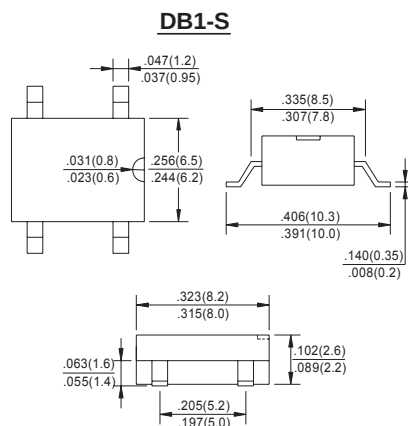
RoHS Compliant Product  
A suffix of "-C" specifies halogen & lead-free

## FEATURES

- Low forward voltage drop, high current capability
- Rating to 1000V PRV
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique results in inexpensive products
- Lead tin Pb / Sn copper
- The plastic material has UL flammability classification 94V-0

## MECHANICAL DATA

- Polarity: As marked on Body
- Weight: 0.02 ounces, 0.38 grams
- Mounting position: Any



Dimensions in inches and (millimeters)

## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, de-rate current by 20%.

| PARAMETERS                                                                                                    | SYMBOL          | DB 201S   | DB 202S | DB 203S | DB 204S | DB 205S | DB 206S | DB 207S | UNIT                      |
|---------------------------------------------------------------------------------------------------------------|-----------------|-----------|---------|---------|---------|---------|---------|---------|---------------------------|
| Peak Repetitive Peak Reverse Voltage                                                                          | $V_{RRM}$       | 50        | 100     | 200     | 400     | 600     | 800     | 1000    | V                         |
| Working Peak Reverse Voltage                                                                                  | $V_{RMS}$       | 35        | 70      | 140     | 280     | 420     | 560     | 700     |                           |
| DC Blocking Voltage                                                                                           | $V_{DC}$        | 50        | 100     | 200     | 400     | 600     | 800     | 1000    |                           |
| Maximum Average Forward Rectified Current<br>@ $T_A=40^\circ\text{C}$                                         | $I_{(AV)}$      | 2.0       |         |         |         |         |         |         | A                         |
| Peak Forward Surge Current 8.3 ms Single Half Sine-Wave Super Imposed on Rated Load (JEDEC Method)            | $I_{FSM}$       | 60        |         |         |         |         |         |         | A                         |
| Maximum Forward Voltage at 1.5 A DC                                                                           | $V_F$           | 1.1       |         |         |         |         |         |         | V                         |
| Maximum DC Reverse Current @ $T_J=25^\circ\text{C}$<br>at Rated DC Blocking Voltage @ $T_J=125^\circ\text{C}$ | $I_R$           | 10<br>500 |         |         |         |         |         |         | uA                        |
| $I^2t$ Rating for Fusing ( $t < 8.3\text{ms}$ )                                                               | $I^2t$          | 10.4      |         |         |         |         |         |         | $\text{A}^2\text{s}$      |
| Typical Junction Capacitance Per Element (Note1)                                                              | $C_J$           | 25        |         |         |         |         |         |         | pF                        |
| Typical Thermal Resistance (Note2)                                                                            | $R_{\theta JA}$ | 40        |         |         |         |         |         |         | $^\circ\text{C}/\text{W}$ |
| Operating and Storage temperature range                                                                       | $T_J, T_{STG}$  | -55 ~ 150 |         |         |         |         |         |         | $^\circ\text{C}$          |

Note: 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\*13mm) copper pads.

## RATINGS AND CHARACTERISTIC CURVES

