

## 3 Amps Surface Mount Bridge

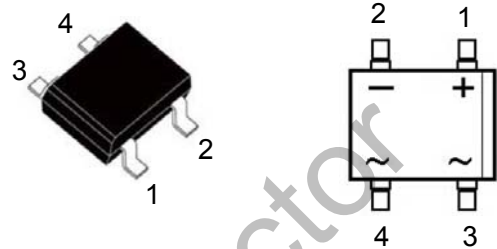


## DB301S-DB307S

## Features:

- Glass passivated chip junction
- Ideal for surface mounted applications
- High forward surge current capability
- High temperature soldering guaranteed:  
260°C/10 seconds at terminals
- Low leakage

DB-S



## Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

| Parameter  | Symbol          | DB 301S     | DB 302S | DB 303S | DB 304S | DB 305S | DB 306S | DB 307S | Unit          |
|--|-----------------|-------------|---------|---------|---------|---------|---------|---------|---------------|
| Maximum Reverse Peak Repetitive Voltage  | $V_{RRM}$       | 50          | 100     | 200     | 400     | 600     | 800     | 1000    | V             |
| Maximum RMS 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, 0.06"(1.5mm) lead length at Ta=40°C (Note 1)   | $I_{(AV)}$      | 3.0         |         |         |         |         |         |         | A             |
| Peak Forward Surge Current 8.3ms single half sine wave superimposed on rated load (JEDEC Method) | $I_{FSM}$       | 80          |         |         |         |         |         |         | A             |
| Total Device Dissipation Derate above 25°C   | $P_D$           | 10.4        |         |         |         |         |         |         | W             |
| Maximum Reverse Current @ rated $V_R$<br>Ta = 25°C<br>Ta = 100°C                                 | $I_R$           | 10<br>1.0   |         |         |         |         |         |         | $\mu A$<br>mA |
| Maximum Forward Voltage @ 2.0 A  | $V_F$           | 1.1         |         |         |         |         |         |         | V             |
| Typical Thermal Resistance (NOTE 1)  | $R_{\theta JA}$ | 42          |         |         |         |         |         |         | °C/W          |
| Typical Junction Capacitance @ $V_R = 4.0$ V, f = 1.0 MHz  | $C_j$           | 30          |         |         |         |         |         |         | pF            |
| Operating and Storage Temperature Range  | $T_j, T_{stg}$  | -55 to +150 |         |         |         |         |         |         | °C            |

Note :1.Unit mounted on P.C.B. with 0.51"×0.51" ( 13×13mm) copper pads.

Typical Characteristics

FIG. 1- DERATING CURVE OUTPUT RECTIFIED CURRENT

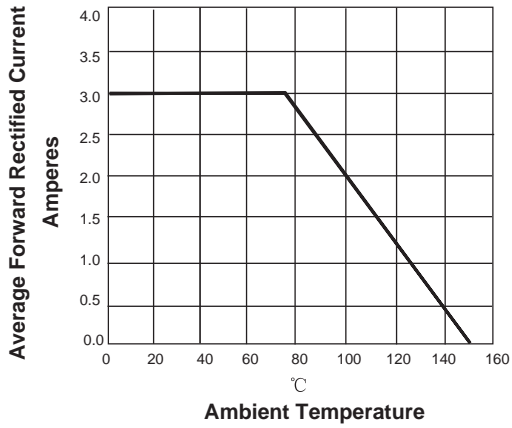


FIG. 2-MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT PERLEG

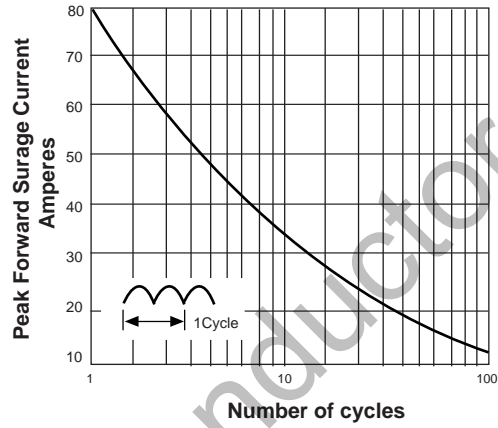


FIG. 3-TYPICAL FORWARD VOLTAGE CHARACTERISTICS

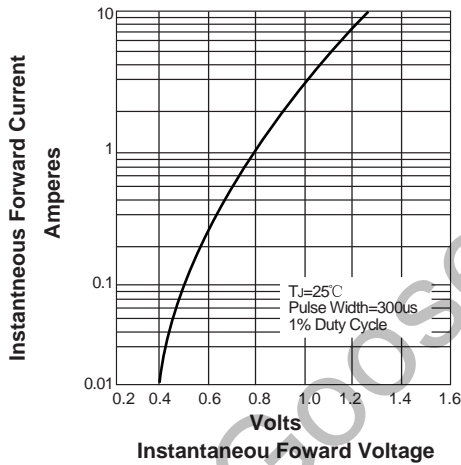


FIG. 4-TYPICAL REVERSE LEAKAGE CHARACTERISTICS

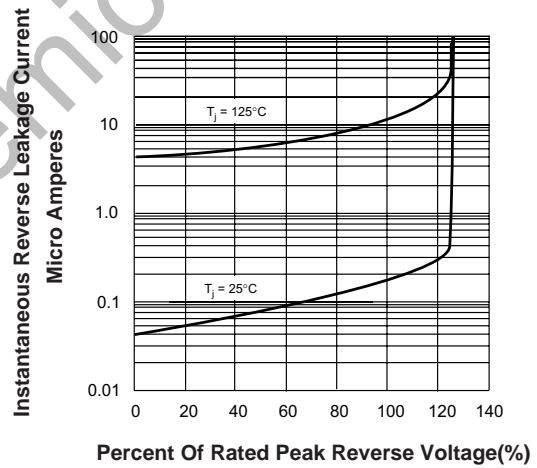
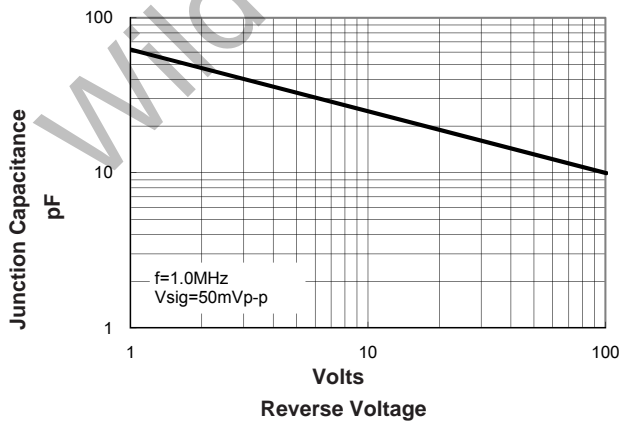
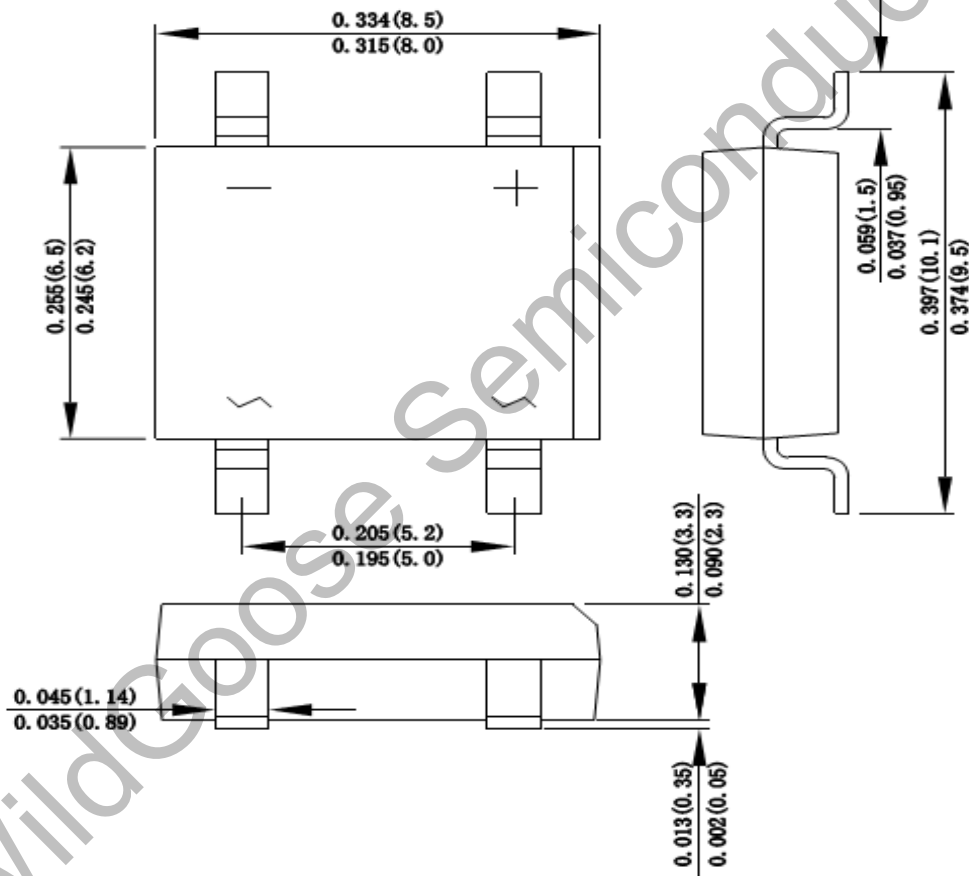


FIG. 5-TYPICAL JUNCTION CAPACTITANE



**Package Dimension**

DB-S

*Dimensions in inches and (millimeters)*

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