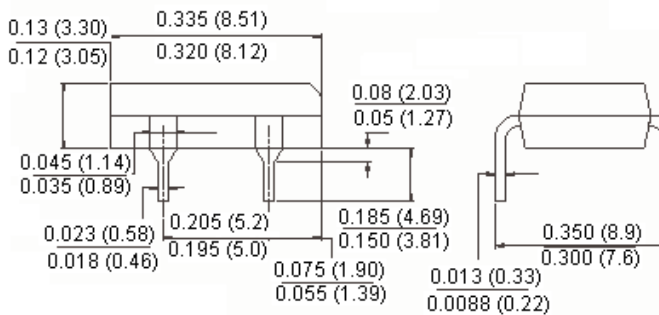
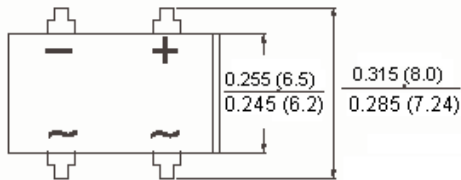




## Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique.
- High surge current capability.
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs., (2.3kg) tension.
- Small size, simple installation.
- Pure tin plated terminal, lead free. leads solderable per MIL-STD-202 Method 208.

## DB



Dimensions : Inches (Millimetres)

## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

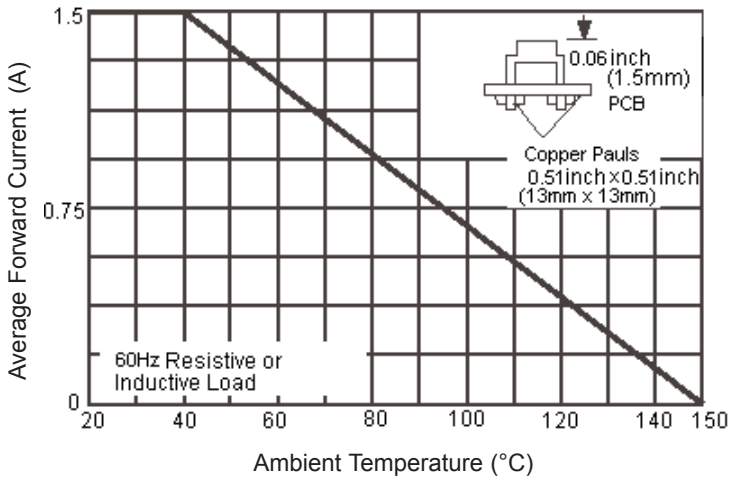
For capacitive load, derate current by 20%.

| Type Number  | Symbol                             | DB 151G     | DB 152G | DB 153G | DB 154G | DB 155G | DB 156G | DB 157G | Units                          |
|--|------------------------------------|-------------|---------|---------|---------|---------|---------|---------|--------------------------------|
| Maximum Recurrent Peak Reverse Voltage   | $V_{RRM}$                          | 50          | 100     | 200     | 400     | 600     | 800     | 1000    | V                              |
| Maximum RMS Voltage  | $V_{RMS}$                          | 35          | 70      | 140     | 280     | 420     | 560     | 700     |                                |
| Maximum DC Blocking Voltage  | $V_{DC}$                           | 50          | 100     | 200     | 400     | 600     | 800     | 1000    |                                |
| Maximum Average Forward Rectified Current at $T_A = 40^\circ\text{C}$  | $I_{(AV)}$                         | 1.5         |         |         |         |         |         |         | A                              |
| Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method )               | $I_{FSM}$                          | 50          |         |         |         |         |         |         |                                |
| Maximum Instantaneous Forward Voltage at 1.5A  | $V_F$                              | 1.1         |         |         |         |         |         |         | v                              |
| Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$ | $I_R$                              | 5<br>500    |         |         |         |         |         |         | $\mu\text{A}$<br>$\mu\text{A}$ |
| Typical Thermal Resistance (Note)  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 40<br>15    |         |         |         |         |         |         | $^\circ\text{C}/\text{W}$      |
| Operating Temperature Range  | $T_J$                              | -55 to +150 |         |         |         |         |         |         | $^\circ\text{C}$               |
| Storage Temperature Range  | $T_{STG}$                          |             |         |         |         |         |         |         |                                |

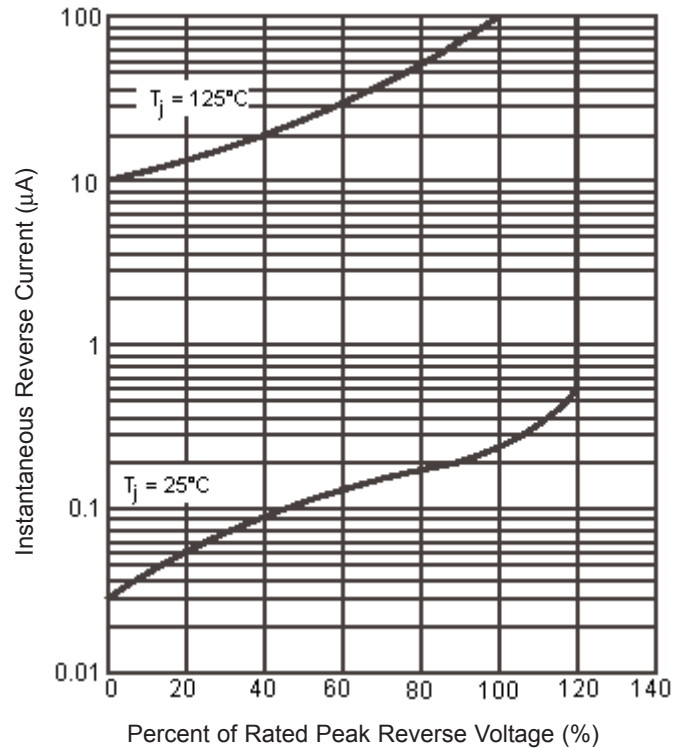
Notes : Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.4 x 0.4 inches (10mm x 10mm) Copper Pads.

## Ratings and Characteristic Curves (DB 151G thru DB 157G)

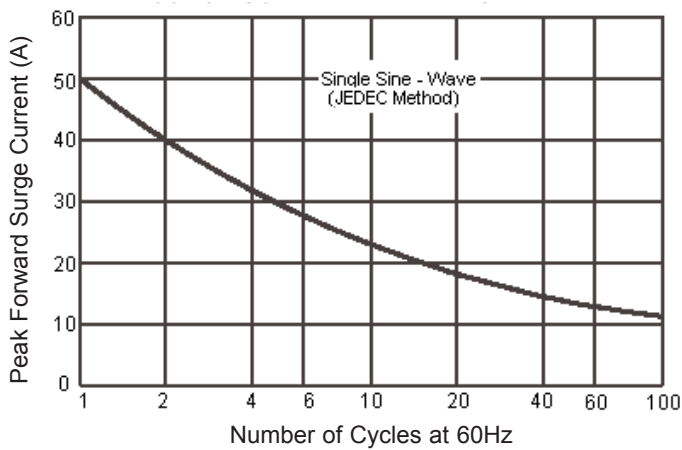
**Maximum Derating Curve for Output Rectified Current**



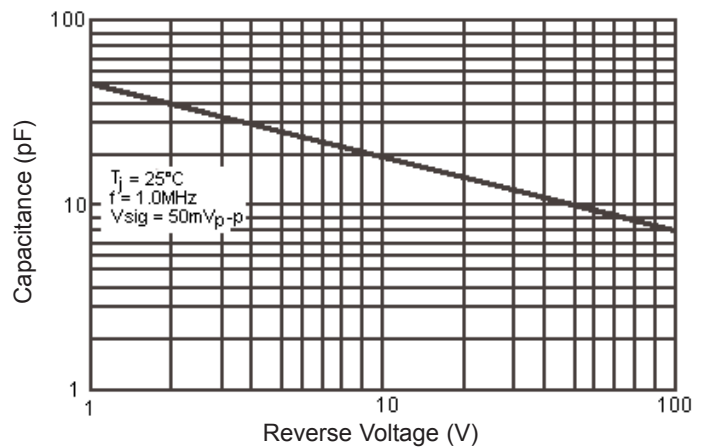
**Typical Reverse Characteristics Per Bridge Element**



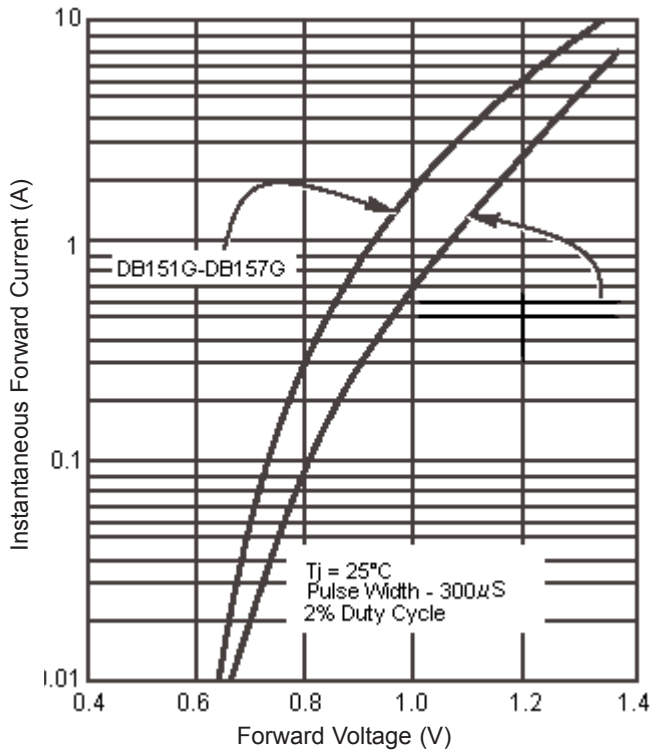
**Maximum Non-repetitive Peak Forward Surge Current Per Bridge Element**



**Typical Junction Capacitance Per Bridge Element**



Typical Forward Characteristics  
Per Bridge Element



## Part Number Table

| Description                   | Part Number |
|-------------------------------|-------------|
| Bridge Rectifier, 1.5A, 50V   | DB151G      |
| Bridge Rectifier, 1.5A, 100V  | DB152G      |
| Bridge Rectifier, 1.5A, 200V  | DB153G      |
| Bridge Rectifier, 1.5A, 400V  | DB154G      |
| Bridge Rectifier, 1.5A, 600V  | DB155G      |
| Bridge Rectifier, 1.5A, 800V  | DB156G      |
| Bridge Rectifier, 1.5A, 1000V | DB157G      |

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