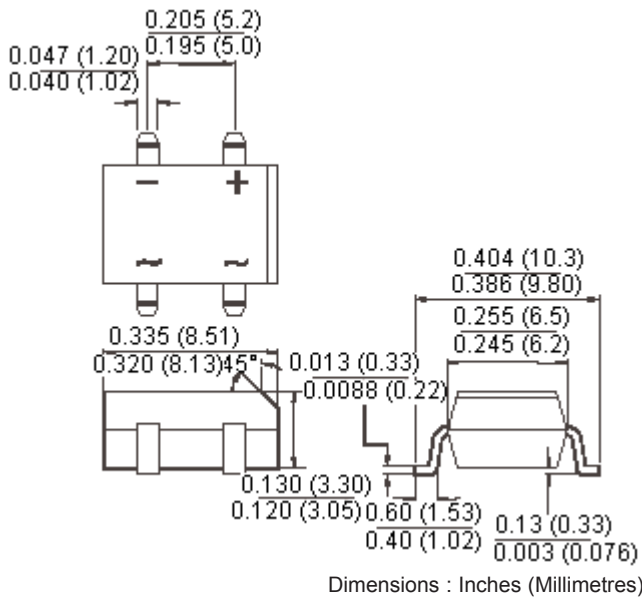




## Features:

- 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.

## DBS



## Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

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

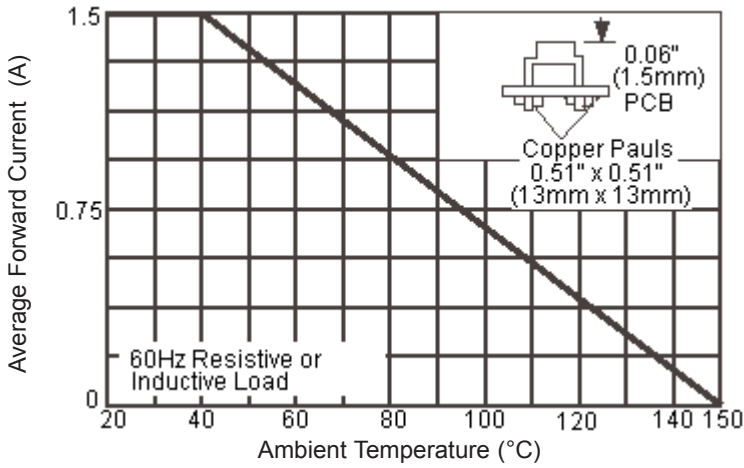
For capacitive load, derate current by 20%.

| Type Number  | Symbol                             | DBS 151G    | DBS 152G | DBS 153G | DBS 154G | DBS 155G | DBS 156G | DBS 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    |          |          |          |          |          |          | uA<br>uA           |
| Typical Thermal Resistance (Note)  | $R_{\theta JA}$<br>$R_{\theta JL}$ | 40<br>15    |          |          |          |          |          |          | $^\circ\text{C/W}$ |
| Operating Temperature Range  | $T_J$                              | -55 to +150 |          |          |          |          |          |          | $^\circ\text{C}$   |
| Storage Temperature Range  | $T_{STG}$                          |             |          |          |          |          |          |          |                    |

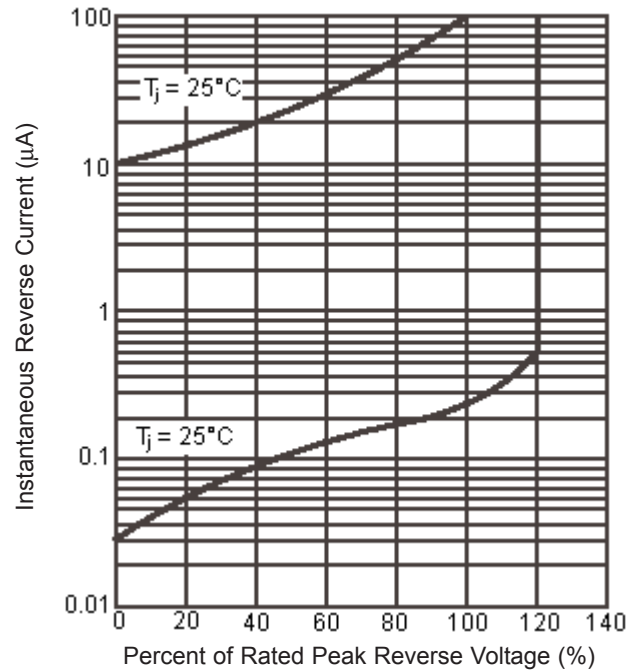
Notes : 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.4 x 0.4 inches (10mm x 10mm) Copper Pads.

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

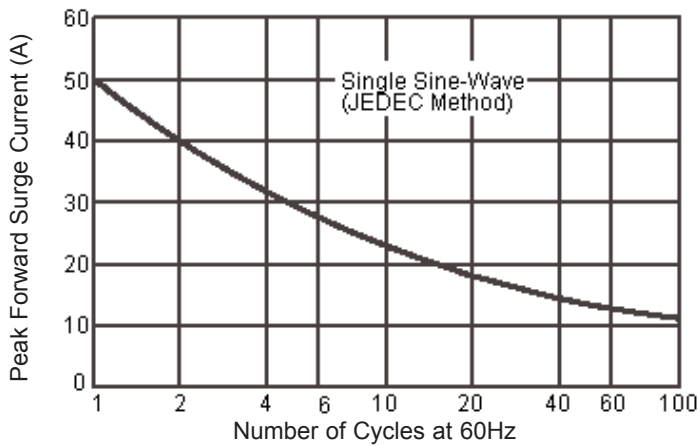
**Maximum Derating Curve for Output Rectified Current**



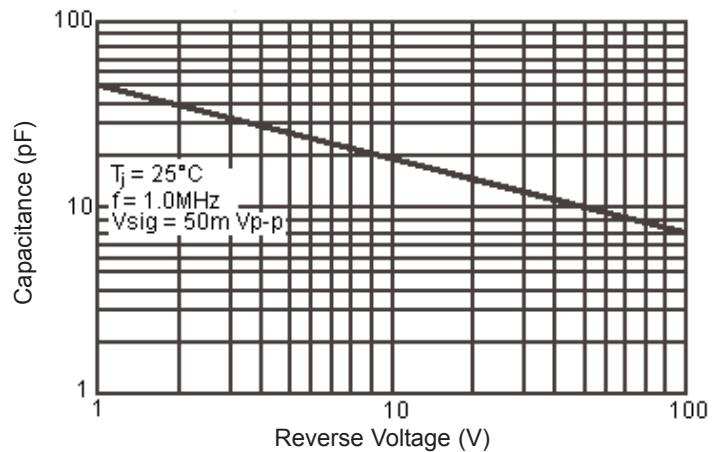
**Typical Reverse Characteristics Per Bridge Element**



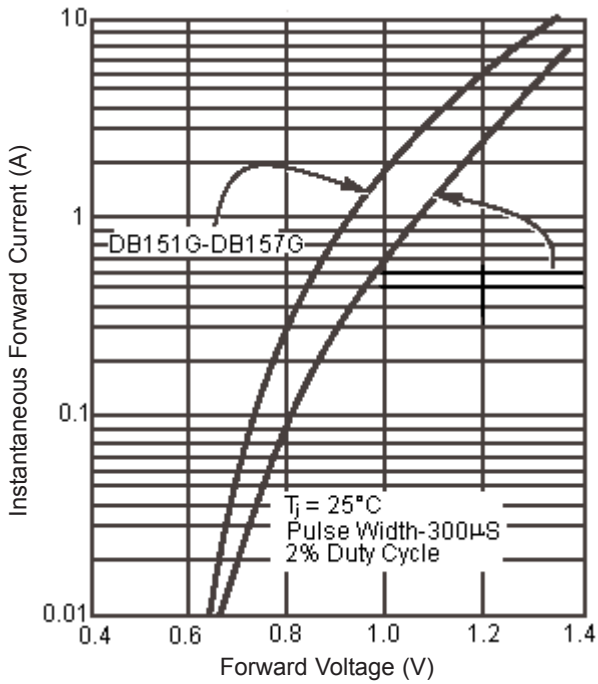
**Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element**



**Typical Junction Capacitance Per Bridge Element**



Typical Forward Characteristics  
Per Bridge Element



## Part Number Table

| Description                   | Part Number |
|-------------------------------|-------------|
| Bridge Rectifier, 1.5A, 50V   | DBS151G     |
| Bridge Rectifier, 1.5A, 100V  | DBS152G     |
| Bridge Rectifier, 1.5A, 200V  | DBS153G     |
| Bridge Rectifier, 1.5A, 400V  | DBS154G     |
| Bridge Rectifier, 1.5A, 600V  | DBS155G     |
| Bridge Rectifier, 1.5A, 800V  | DBS156G     |
| Bridge Rectifier, 1.5A, 1000V | DBS157G     |

## Notes:

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