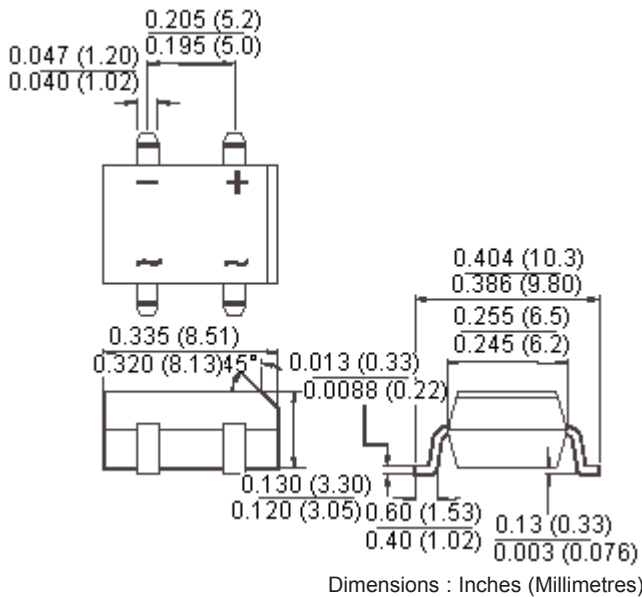




## Features:

- 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.

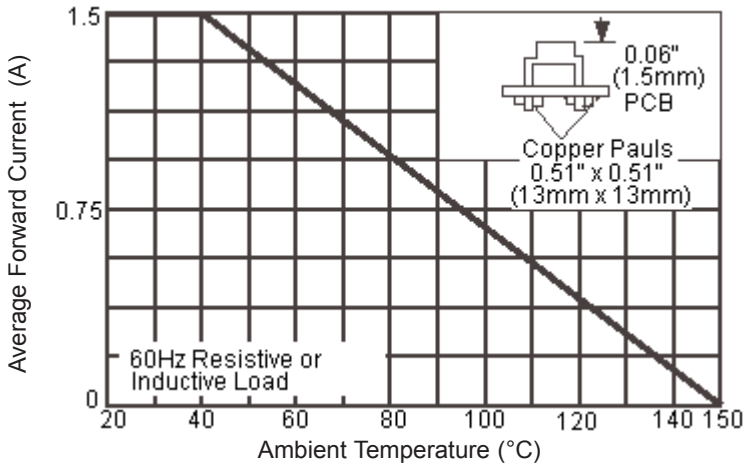
For capacitive load, derate current by 20%.

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 $T_A = 125^\circ\text{C}$	$I_R$	5 500							uA uA
Typical Thermal Resistance (Note)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							$^\circ\text{C/W}$
Operating Temperature Range	$T_J$	-55 to +150							$^\circ\text{C}$
Storage Temperature Range	$T_{STG}$								

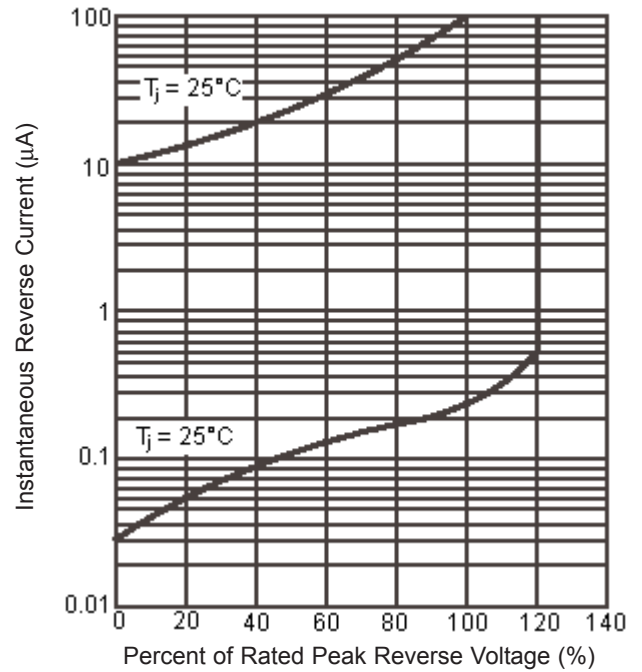
Notes : 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on PCB with 0.4 x 0.4 inches (10mm x 10mm) Copper Pads.

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

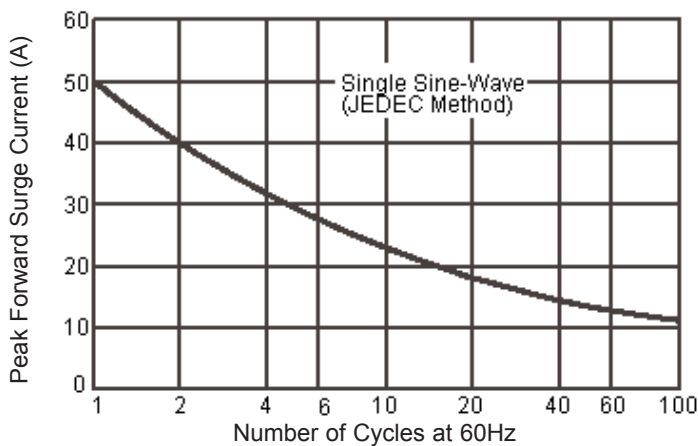
**Maximum Derating Curve for Output Rectified Current**



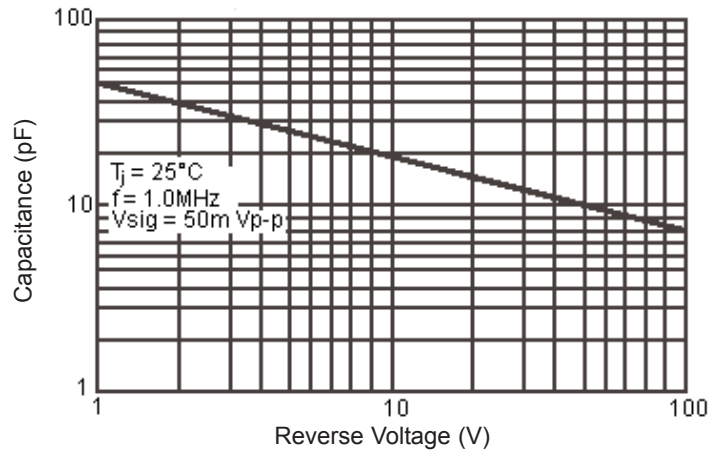
**Typical Reverse Characteristics Per Bridge Element**



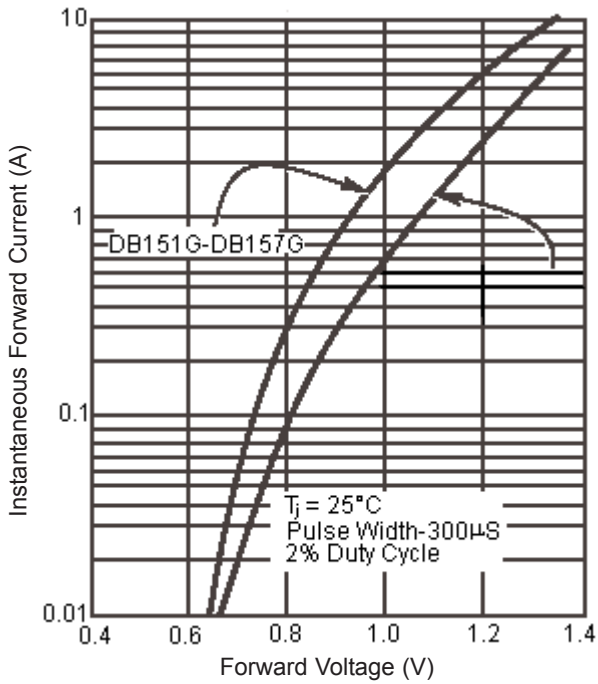
**Maximum Non-Repetitive Peak Forward Surge Current Per Bridge Element**



**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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