

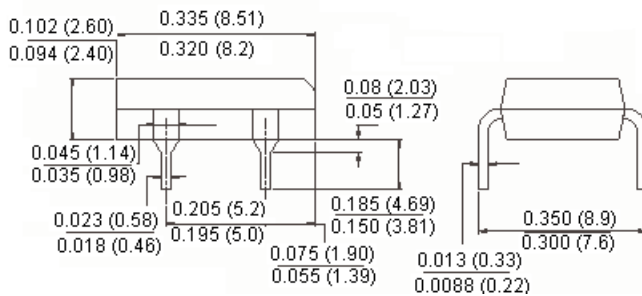
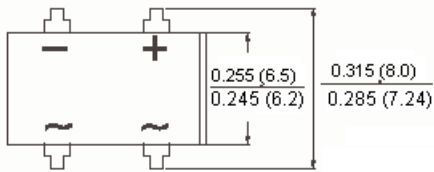
# DBL(S)- Series



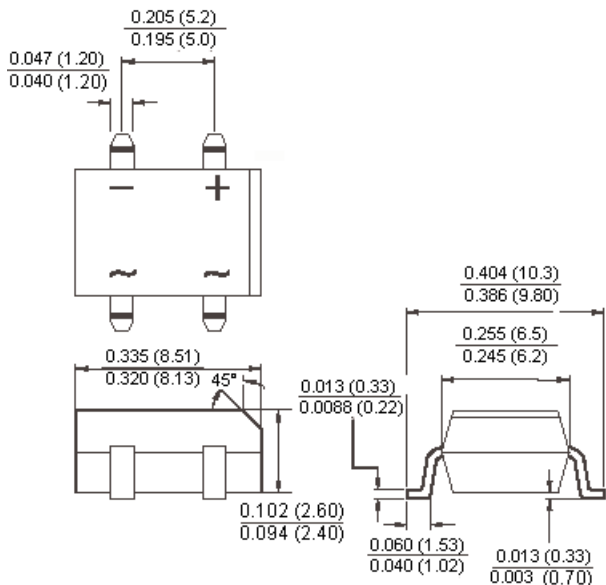
## Features:

- Glass passivated junction.
- Ideal for printed circuit board.
- Reliable low cost construction utilizing moulded plastic technique.
- High temperature soldering guaranteed: 260°C/10 seconds/0.375 inch (9.5mm) lead length at 5 lbs., (2.3kg) tension.
- Small size, simple installation.
- pure tin plated terminal, lead free. leads solderable per MIL-STD-202, Method 208.
- High surge current capability.

### DBL



### DBLS



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%.

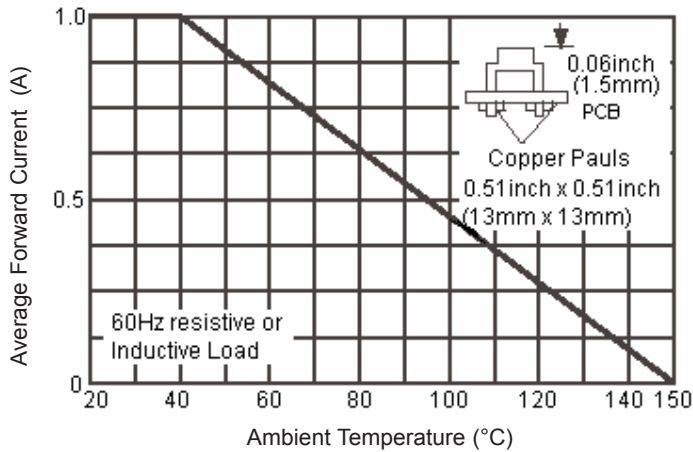
Type Number	Symbol	DBL 101G	DBL 102G	DBL 103G	DBL 104G	DBL 105G	DBL 106G	DBL 107G	Units
		DBLS 101G	DBLS 102G	DBLS 103G	DBLS 104G	DBLS 105G	DBLS 106G	DBLS 107G	
Maximum Recurrent Peak Reverse Voltage	$V_{RRM}$	50	100	200	400	600	800	1000	V
Maximum RMS Voltage	$V_{RMS}$	35	70	140	280	420	560	700	
Maximum DC Blocking Voltage	$V_{DC}$	50	100	200	400	600	800	1000	
Maximum Average Forward Rectified Current at $T_A = 40^\circ\text{C}$	$I_{(AV)}$	1.0							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 1.0A	$V_F$	1.1							V
Maximum DC Reverse Current at $T_A = 25^\circ\text{C}$ at Rated DC Blocking Voltage at $T_A = 125^\circ\text{C}$	$I_R$	10 500							$\mu\text{A}$ $\mu\text{A}$
Typical Junction Capacitance	$C_j$	25							pF
Typical Thermal Resistance (Note 1)	$R_{\theta JA}$ $R_{\theta JL}$	40 15							$^\circ\text{C}/\text{W}$
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 0.2 x 0.2 inches (5 x 5mm) Copper Pads.

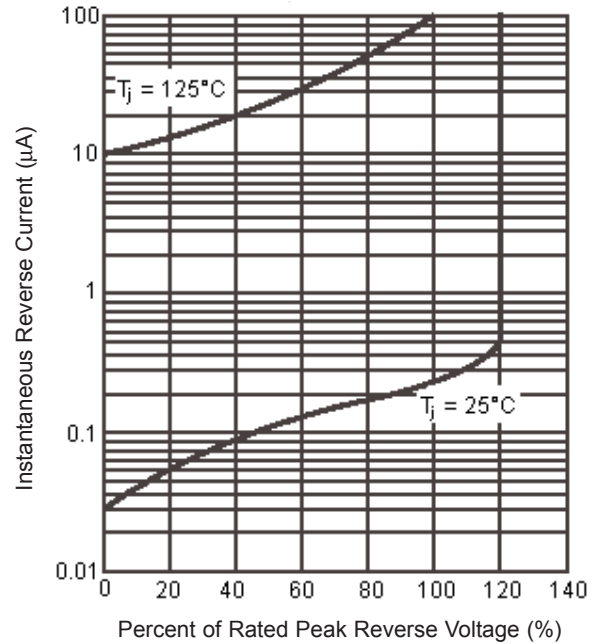
2. DBLS for Surface Mount Package.

## Ratings and Characteristic Curves (DBL 101G thru DBL 107G)

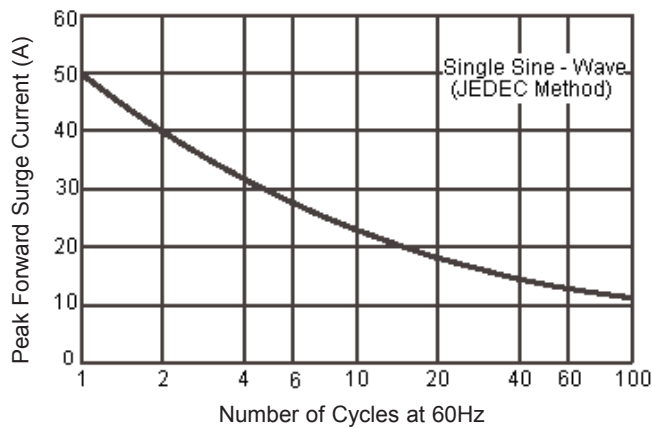
Maximum Derating Curve for Output Rectified Current



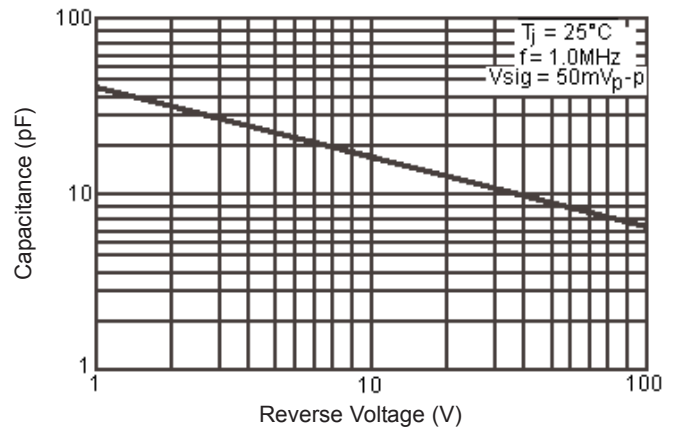
Typical Reverse Characteristics Per Bridge Element



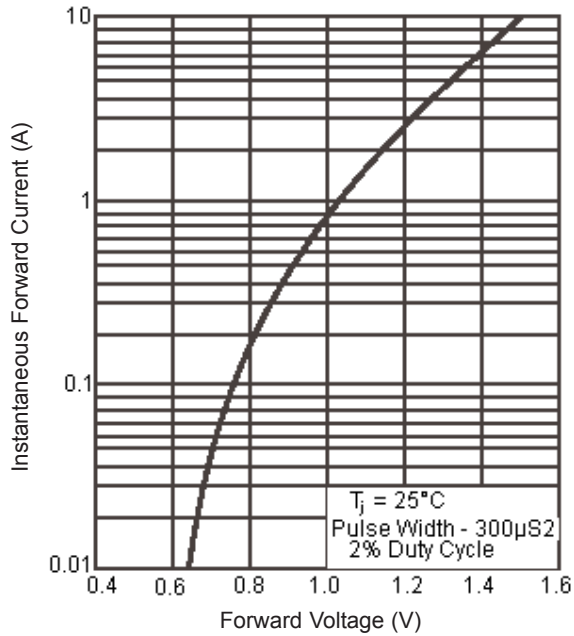
Maximum Non-repetitive Peak Forward Surge Current



Typical Junction Capacitance Per Bridge Element



Typical Forward Characteristics  
Per Bridge Element



## Part Number Table

Description	Part Number
Bridge Rectifier, 1A, 100V	DBL102G
Bridge Rectifier, 1A, 200V	DBL103G
Bridge Rectifier, 1A, 400V	DBL104G
Bridge Rectifier, 1A, 600V	DBL105G
Bridge Rectifier, 1A, 800V	DBL106G
Bridge Rectifier, 1A, 1000V	DBL107G
Bridge Rectifier, 1A, 50V	DBLS101G
Bridge Rectifier, 1A, 100V	DBLS102G
Bridge Rectifier, 1A, 200V	DBLS103G
Bridge Rectifier, 1A, 400V	DBLS104G
Bridge Rectifier, 1A, 600V	DBLS105G
Bridge Rectifier, 1A, 800V	DBLS106G
Bridge Rectifier, 1A, 1000V	DBLS107G

## Notes:

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