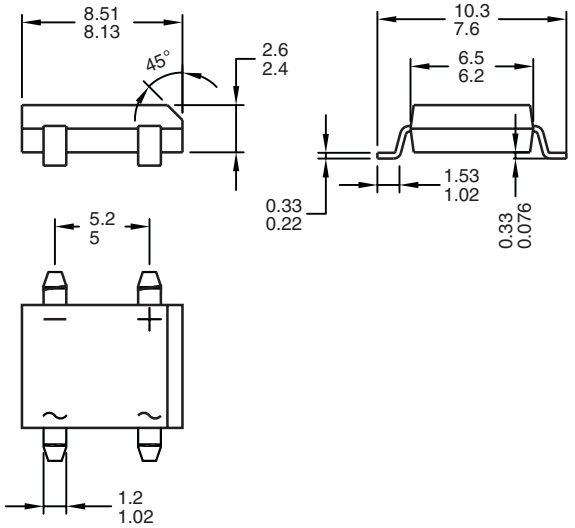
Single Phase 1.0 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm. **CASE: THIN DF-S**



Voltage	Current
400 V-1000V	1.0 A

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

Maximum Ratings and Electrical Characteristics

		DBLS 104G	DBLS 105G	DBLS 106G	DBLS 107G
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
V_{RMS}	Maximum RMS Voltage (V)	280	420	560	700
V_{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000
$I_{F(AV)}$	Maximum average Forward Rectified Current @T_A = 40 °C	1.0 A			
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50 A			
C_j	Typical Junction Capacitance	25 pF			
$R_{th\ (j-l)}$	Typical Thermal Resistance (Note 1)	15 °C/W			
$R_{th\ (j-a)}$		40 °C/W			
T_j	Operating Temperature Range	-50 to + 150 °C			
T_{stg}	Storage Temperature Range	-50 to + 150 °C			

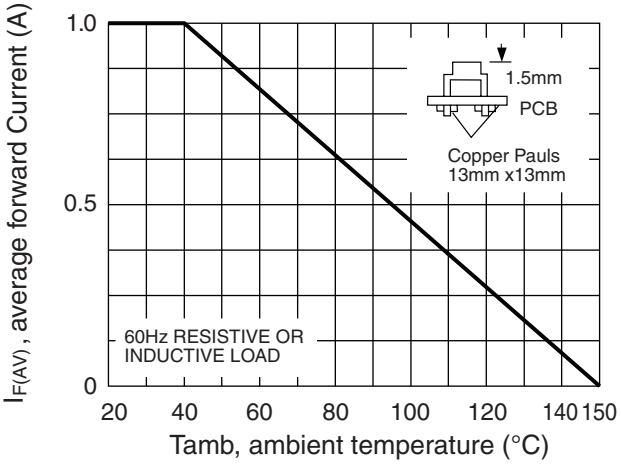
Electrical Characteristics at Tamb = 25 °C

		DBLS 104G	DBLS 105G	DBLS 106G	DBLS 107G
V_F	Max. Instantaneous Forward Voltage @ 1.0A	1.1 V			
I_R	Maximum DC Reverse Current @ T_A = 25 °C	10 µA			
	at Rated DC Blocking Voltage @ T_A = 125 °C	500 µA			

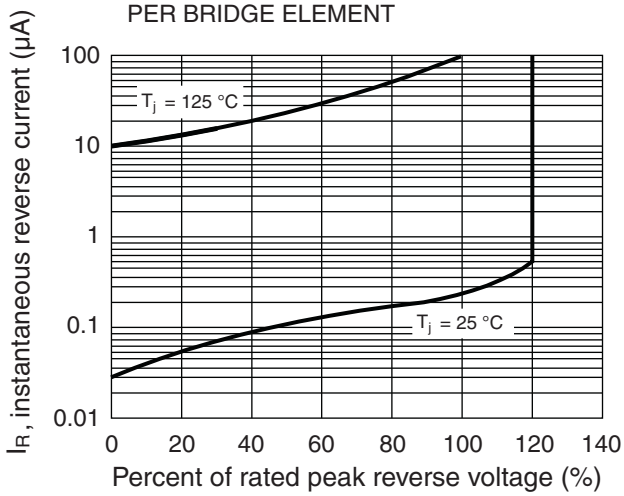
Note: 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B. with 5 x 5mm Copper Pads.
2. DBLS for Surface Mount Package.

Rating And Charasterictic Curves

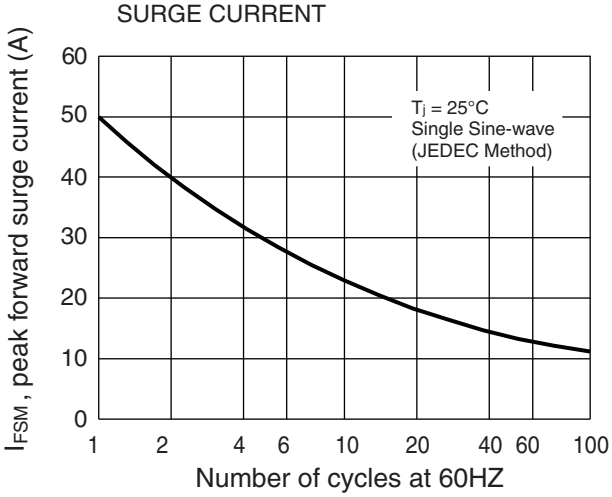
MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



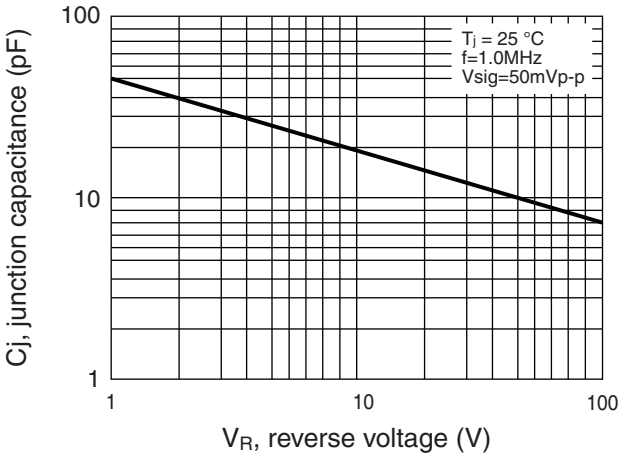
TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT