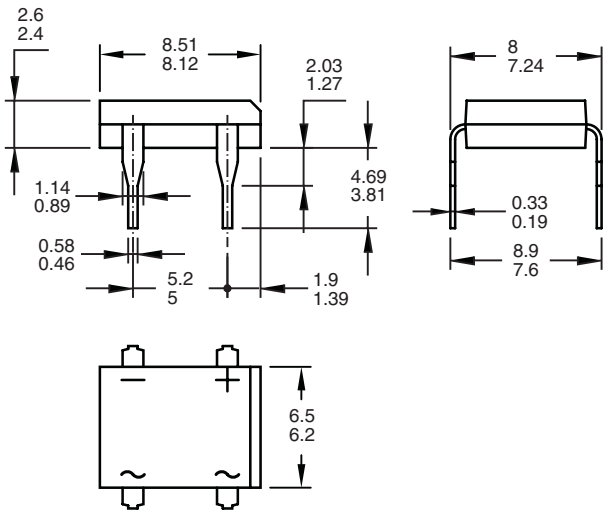
Single Phase 1.5 Amp. Glass Passivated Bridge Rectifiers

Dimensions in mm.

CASE: THIN DF-M



Voltage	Current
400 V-1400 V	1.5 A

- Glass passivated junction
- Ideal for printed circuit board
- Reliable low cost construction utilizing molded plastic technique
- High surge current capability
- High temperature soldering guaranteed: 260 °C / 10 seconds 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

Maximum Ratings and Electrical Characteristics

		DBL 154G	DBL 155G	DBL 156G	DBL 157G	DBL 158G	DBL 159G
V_{RRM}	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000	1200	1400
V_{RMS}	Maximum RMS Voltage (V)	280	420	560	700	840	980
V_{DC}	Maximum DC Blocking Voltage (V)	400	600	800	1000	1200	1400
$I_{F(AV)}$	Maximum average Forward Rectified Current @T_A = 40 °C	1.5 A					
I_{FSM}	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	50 A					
$R_{th\ (j-l)}$ $R_{th\ (j-a)}$	Typical Thermal Resistance (Note)	15 °C/W 40 °C/W					
T_j	Operating Temperature Range	-55 to + 150 °C					
T_{stg}	Storage Temperature Range	-55 to + 150 °C					

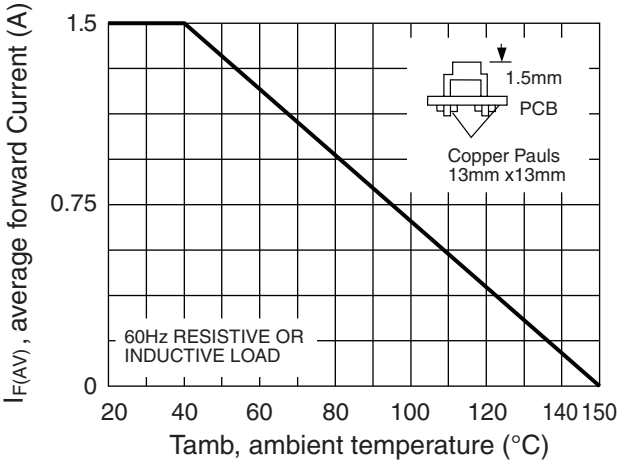
Electrical Characteristics at Tamb = 25 °C

		DBL 154G	DBL 155G	DBL 156G	DBL 157G	DBL 158G	DBL 159G
V_F	Max. Instantaneous Forward Voltage @ 1.5A	1.1 V				1.25 V	
I_R	Maximum DC Reverse Current @ T_A = 25 °C at Rated DC Blocking Voltage @ T_A = 125 °C	5 µA 500 µA					

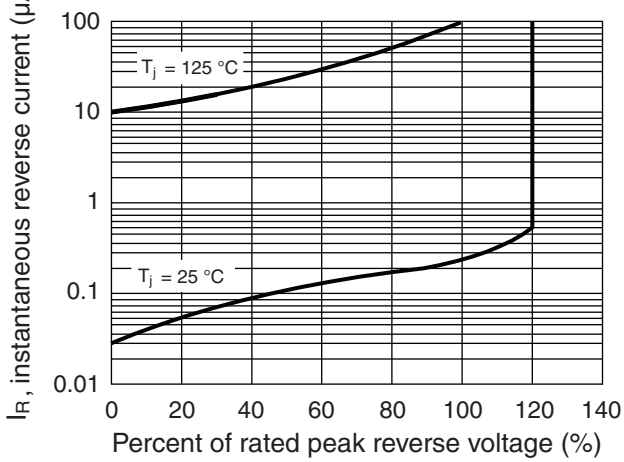
Note: Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted on P.C.B. with 10 x 10mm Copper Pads.

Rating And Charasterictic Curves

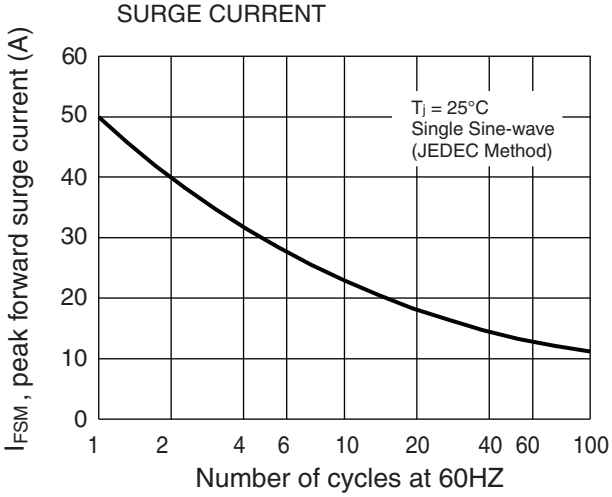
MAXIMUM DERATING CURVE FOR OUTPUT RECTIFIED CURRENT



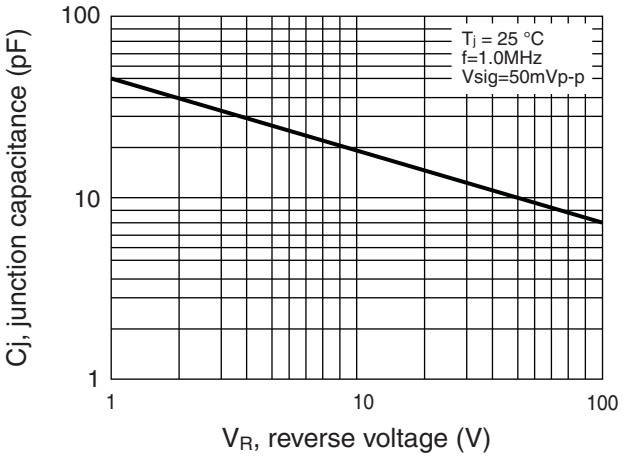
TYPICAL REVERSE CHARACTERISTICS PER BRIDGE ELEMENT



MAXIMUM NON-REPETITIVE FORWARD SURGE CURRENT



TYPICAL JUNCTION CAPACITANCE PER BRIDGE ELEMENT



TYPICAL FORWARD CHARACTERISTICS PER BRIDGE ELEMENT