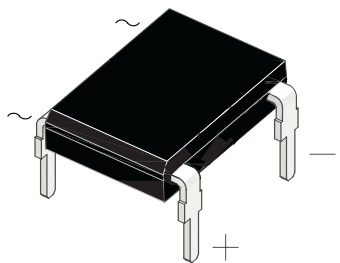
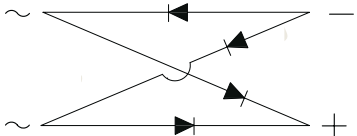




**1.0 Amp. Miniature Glass Passivated Single-Phase Bridge Rectifier**

<p style="text-align: center;"><b>THIN DFM</b></p>  	<p style="text-align: center;"><b>Voltage</b> 400 V to 1000 V</p> <p style="text-align: center;"><b>Current</b> 1.0 Amp. at 40°C</p>
	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>• Ideal for automated insertion</li> <li>• High forward surge current capability</li> <li>• Ideal for printed circuit boards</li> <li>• Solder dip 260°C, 10s</li> <li>• Component in accordance to RoHS 2011/65/EU and WEEE 2002/96/EC</li> <li>• Meets MSL level 1, per J-STD-020, LF maximum peak of 250° C</li> </ul> <div style="text-align: right;">     <b>RoHS</b> COMPLIANT         </div>
	<p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li>• <b>Case:</b> THIN DFM. Epoxy meets UL 94V-0 flammability rating.</li> <li>• <b>Polarity:</b> As marked on body.</li> <li>• <b>Terminals:</b> Matte tin plated leads, solderable per MIL-STD-750 Method 2026, J-STD-002 and JESD22-B102. Consumer grade, meets JESD 201 class 1A whisker test.</li> </ul>
	<p><b>TYPICAL APPLICATIONS</b></p> <p>Used in ac-to-dc bridge full wave rectification for SMPS, lighting ballaster, adapter, battery charger, home appliances, office equipment, and telecommunication applications..</p>

**Maximun Ratings and Electrical Characteristics at 25°C**

		DBL 104G	DBL 105G	DBL 106G	DBL 107G
V <sub>RRM</sub>	Maximum Recurrent Peak Reverse Voltage (V)	400	600	800	1000
V <sub>RMS</sub>	Maximum RMS Voltage (V)	280	420	560	700
V <sub>DC</sub>	Maximum DC Blocking Voltage (V)	400	600	800	1000
I <sub>F(AV)</sub>	Maximum average Forward Rectified Current @T <sub>A</sub> = 40 °C	1.0 A			
I <sub>FSM</sub>	Peak Forward Surge Current, 8.3 ms Single Half Sine-wave Superimposed on Rated Load (JEDEC method)	40 A		30 A	
C <sub>j</sub>	Typical Junction Capacitance	25 pF			
R <sub>th (j-l)</sub>	Typical Thermal Resistance (Note 1)	15 °C/W			
R <sub>th (j-a)</sub>		40 °C/W			
T <sub>j</sub>	Operating Temperature Range	-55 to + 150 °C			
T <sub>stg</sub>	Storage Temperature Range	-55 to + 150 °C			

**Electrical Characteristics at Tamb = 25 °C**

$V_F$	Max. Instantaneous Forward Voltage @ 1.0A	1.1 V
$I_R$	Maximum DC Reverse Current @ $T_A = 25^\circ C$ at Rated DC Blocking Voltage @ $T_A = 125^\circ C$	2 $\mu A$ 500 $\mu A$

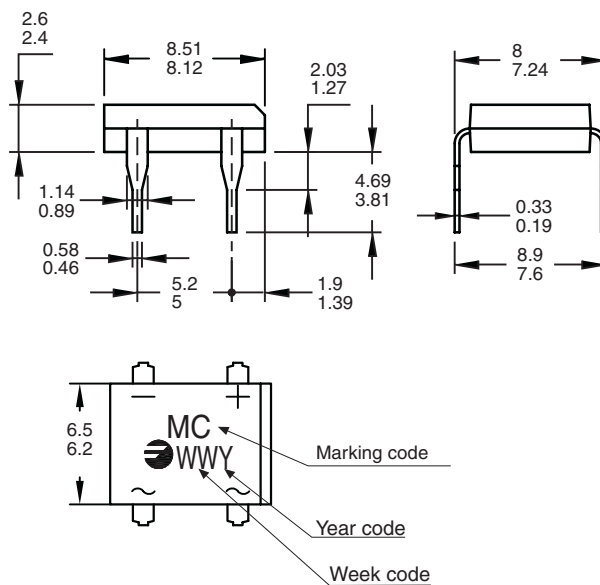
Note: 1. Thermal Resistance from Junction to Ambient and from Junction to Lead Mounted On P.C.B. with 5 x 5mm Copper Pads.

**1.0 Amp. Miniature Glass Passivated Single-Phase Bridge Rectifier**

**Ordering information**

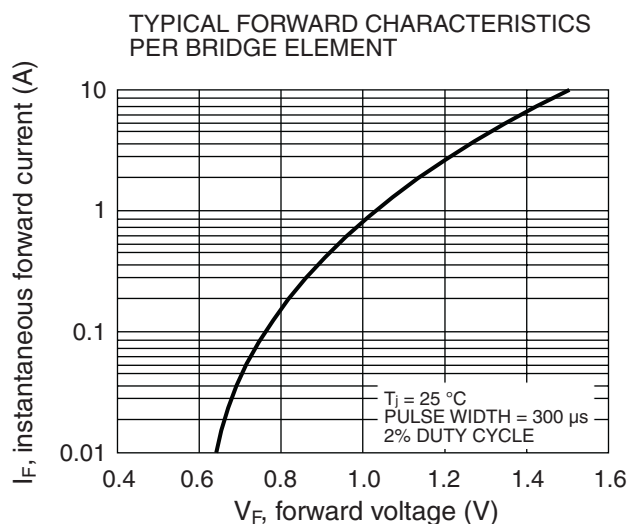
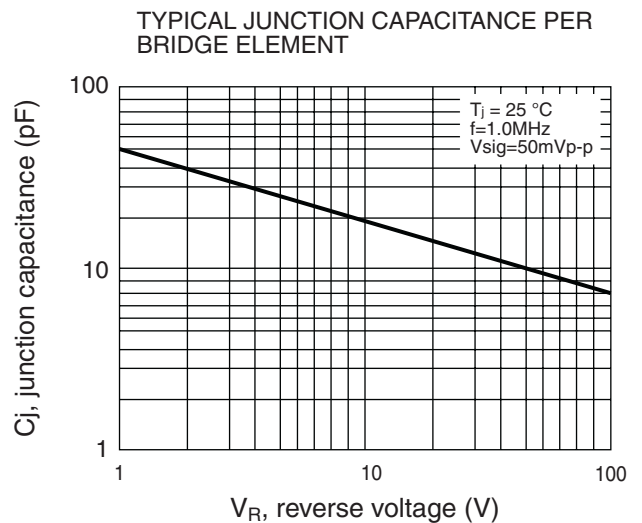
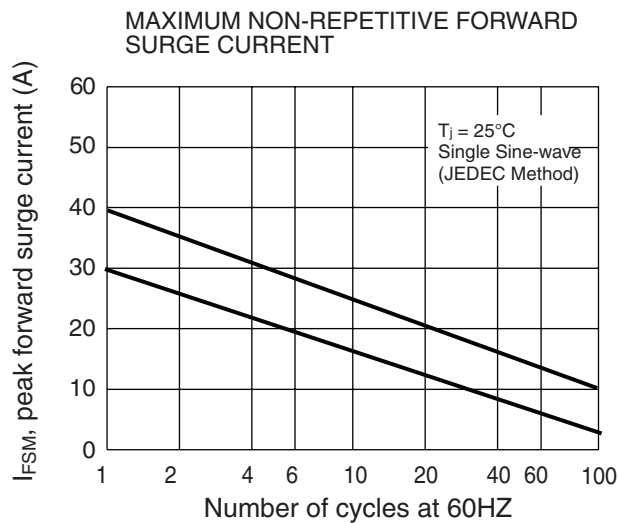
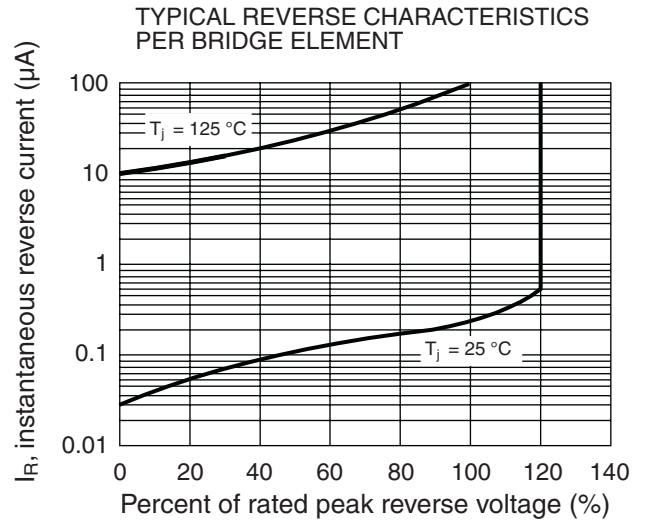
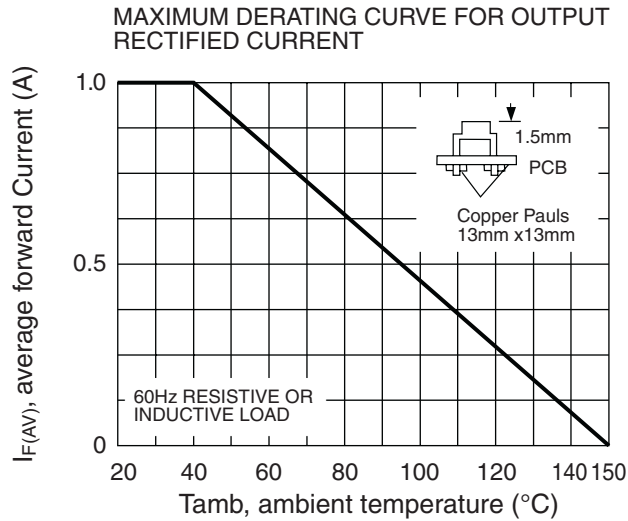
PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
DBL107G TU	TU	TUBE	50	0.32

**Package Outline Dimensions: (mm) THIN DFM**



## 1.0 Amp. Miniature Glass Passivated Single-Phase Bridge Rectifier

### Ratings and Characteristics (Ta 25 °C unless otherwise noted)



## **1.0 Amp. Miniature Glass Passivated Single-Phase Bridge Rectifier**

### **Revision History**

<b>Date</b>	<b>Revision</b>	<b>Description of Changes</b>
20-Apr-2016	0	Original Data Sheet
29-Apr-2016	1	IFSM, IR and Tj min. adjusted.

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