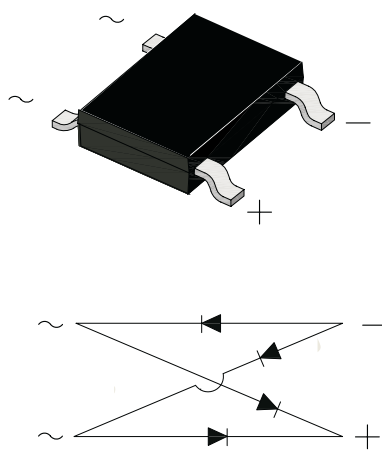
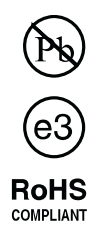


## 1.5 Amp. Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier

<p><b>DFS</b></p> 	<p><b>Voltage</b> 600 V to 1000 V</p>	<p><b>Current</b> 1.5 Amp. at 40°C</p>	
	<p><b>FEATURES</b></p> <ul style="list-style-type: none"> <li>Ideal for automated placement</li> <li>High forward surge current capability</li> <li>Solder dip 260°C, 10s</li> <li>Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC</li> <li>Meets MSL level 1, per J-STD-020, LF maximum peak of 250° C</li> </ul>		 <p><b>RoHS COMPLIANT</b></p>
	<p><b>MECHANICAL DATA</b></p> <ul style="list-style-type: none"> <li><b>Case:</b> DFS 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

		<b>DF1506S</b>	<b>DF1510S</b>
Marking code		DF1506S	DF1510S
$V_{RRM}$	Peak recurrent reverse voltage (V)	600	1000
$V_{RMS}$	Maximum RMS voltage (V)	420	700
$I_{F(AV)}$	Forward current at Tamb = 40 °C	1.5 A	
$I_{FRM}$	Recurrent peak forward current	10 A	
$I_{FSM}$	8.3 ms. peak forward surge current (Jedec Method)	50 A	
$I^2t$	$I^2t$ value for fusing (t = 8.3 ms)	12 A <sup>2</sup> sec	
$T_j$	Operating temperature range	- 55 to + 150 °C	
$T_{stg}$	Storage temperature range	- 55 to + 150 °C	

### Electrical Characteristics at Tamb = 25 °C

$V_F$	Max. forward voltage drop at $I_F = 1.5 A$	1.1 V
$I_R$	Max. reverse current and T = 25 °C	10 μA
	at $V_{RRM}$ d.c. and T = 125 °C	500 μA
$R_{th(j-a)}$	Maximum thermal resistance junction to ambient (*)	40 °C/W

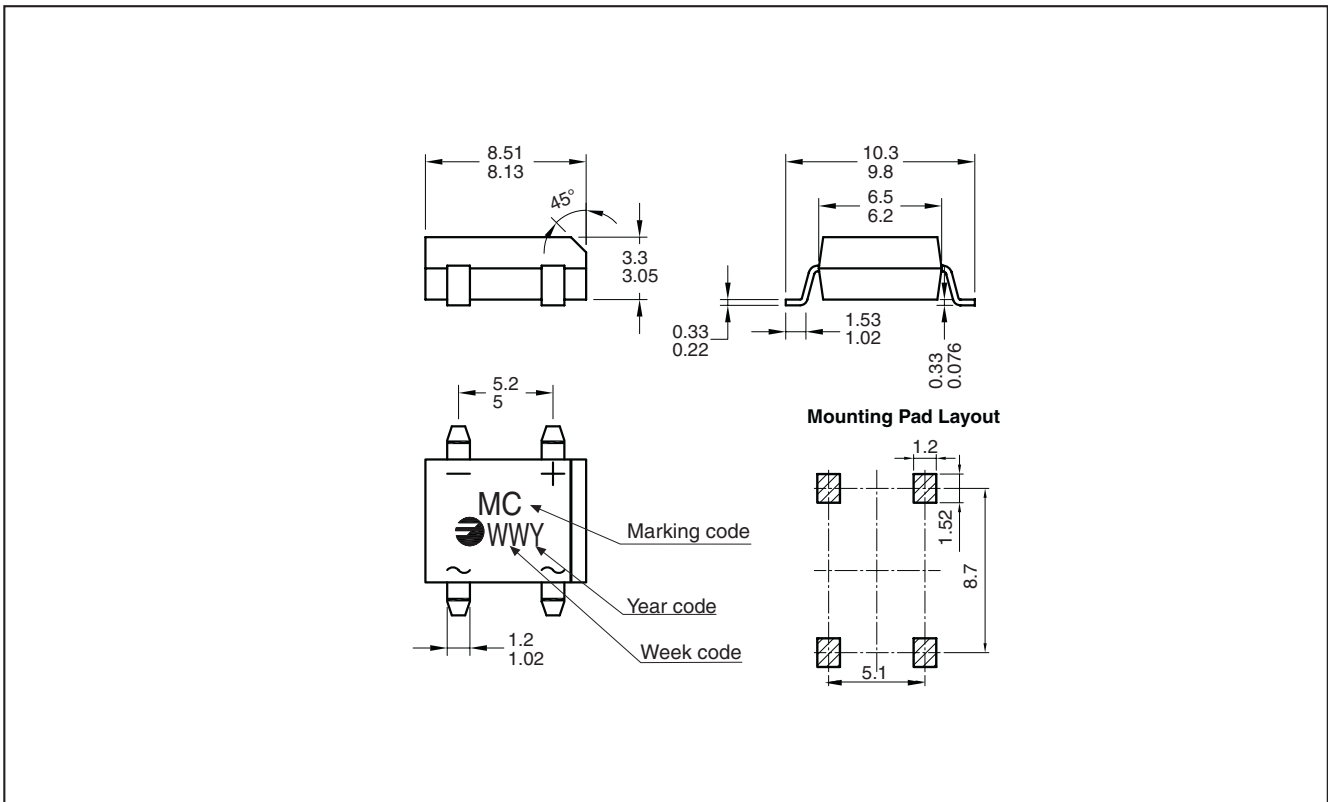
(\*) NOTE: Thermal Resistance from junction to ambient mounted on P.C. Board with 12 mm. sq. Copper

**1.5 Amp. Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier**

**Ordering information**

PREFERRED P/N	PACKAGE CODE	DELIVERY MODE	BASE QUANTITY	UNIT WEIGHT (g)
DF1506S TR	TR	13" diameter tape and reel	3,000	0.399

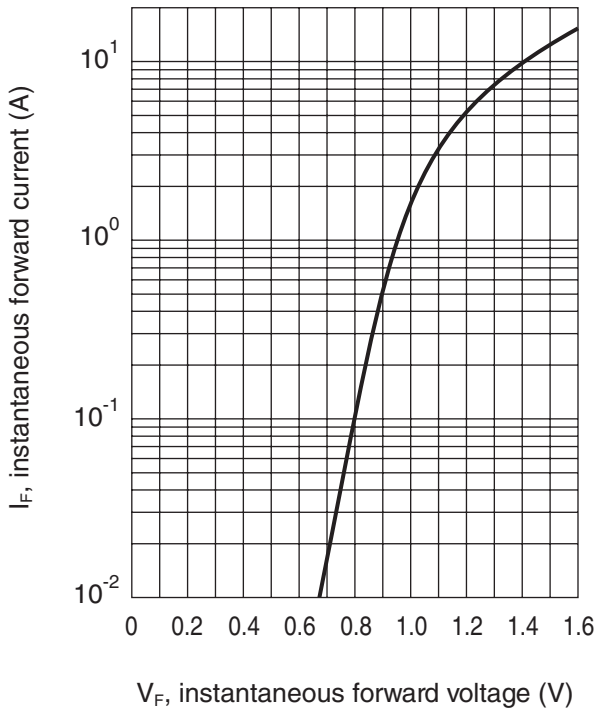
**Package Outline Dimensions: (mm) DFS**



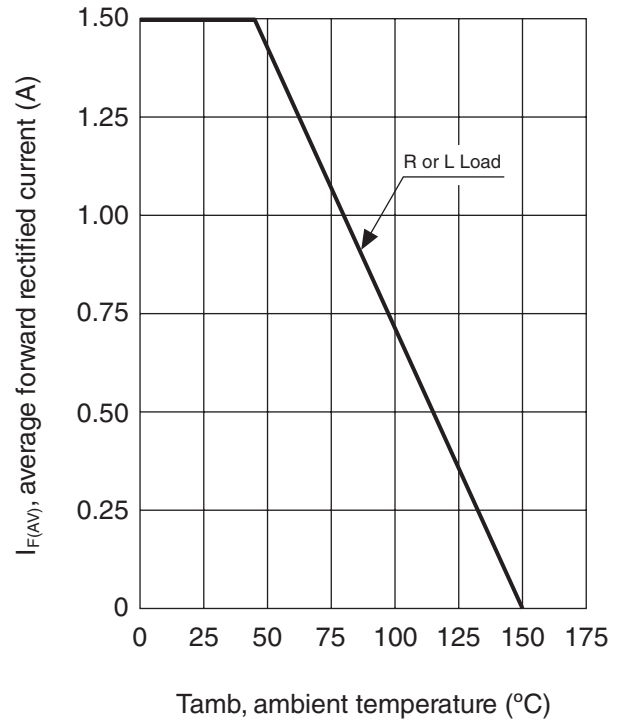
**1.5 Amp. Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier**

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

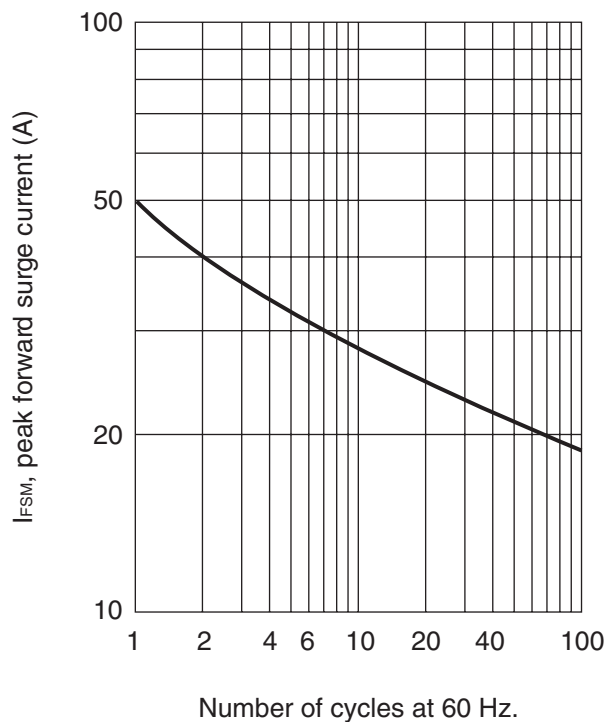
TYPICAL FORWARD CHARACTERISTIC



FORWARD CURRENT DERATING CURVE



MAXIMUM NON-REPETITIVE PEAK FORWARD SURGE CURRENT



## 1.5 Amp. Miniature Glass Passivated Single-Phase Surface Mount Bridge Rectifier

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