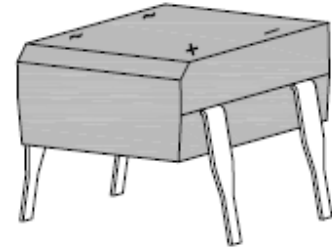


## 1.5A Glass Passivated Bridge Rectifier

### Features

- Glass passivated chip junction
- Low leakage
- High surge current capability
- Ideal for printed circuit boards
- Reliable low cost construction utilizing molded plastic technique
- High temperature soldering guaranteed: 260°C/10 seconds at 5lbs.(2.3kg) tension
- Small size, simple installation
- RoHS compliant



DFM



### Mechanical Data

<b>Case:</b>	DFM, Molded plastic body over passivated junction
<b>Epoxy:</b>	Plastic package has UL flammability classification 94V-0
<b>Terminals:</b>	Plated leads solderable per MIL-STD-202, Method 208
<b>Polarity:</b>	As marked on case
<b>Weight:</b>	0.014 ounce, 0.4 gram

### Maximum Ratings And Electrical Characteristics (T<sub>amb</sub>=25°C)

Symbols	Parameter	DF 1505M	DF 151M	DF 152M	DF 154M	DF 156M	DF 158M	DF 1510M	DF 1512M	DF 1514M	Unit	Conditions
<b>V<sub>RRM</sub></b>	Maximum Repetitive Peak Reverse Voltage	50	100	200	400	600	800	1000	1200	1400	V	
<b>V<sub>RMS</sub></b>	Maximum RMS Voltage	35	70	140	280	420	560	700	840	980	V	
<b>V<sub>DC</sub></b>	Maximum DC Blocking Voltage	50	100	200	400	600	800	1000	1200	1400	V	
<b>I<sub>F(AV)</sub></b>	Maximum Average Forward Rectified Current	1.5									A	T <sub>A</sub> =40° C
<b>I<sub>FSM</sub></b>	Peak Forward Surge Current	50									A	8.3ms Single Sine-wave Superimposed on Rated Load (JEDEC Method)

# 1.5A Glass Passivated Bridge Rectifier

## DF1505M - DF1514M

Symbols	Parameter	DF 1505M	DF 151M	DF 152M	DF 154M	DF 156M	DF 158M	DF 1510M	DF 1512M	DF 1514M	Unit	Conditions
<b>V<sub>F</sub></b>	Maximum Instantaneous Forward Voltage Drop per leg	1.1						1.25			V	I <sub>F</sub> =1.5A
<b>I<sub>R</sub></b>	Maximum DC Reverse Current at Rated DC Blocking Voltage per leg	5									μA	TA=25°C
		500										TA=125°C
<b>R<sub>θJA</sub></b>	Typical Thermal Resistance per leg	40									°C/W	Note 1
<b>R<sub>θJL</sub></b>		15										
<b>T<sub>J</sub>, T<sub>STG</sub></b>	Operating Junction and Storage Temperature Range	-55 to +150									°C	

Note: 1. Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.51 x 0.51" (13 x13mm) copper pads.

### Rating and Characteristic Curves

Fig.1- Maximum Derating Curve for Output Rectified Current

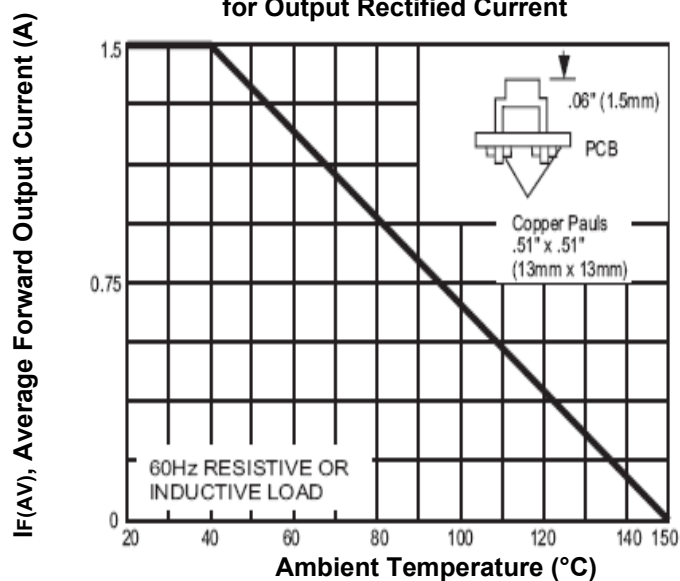
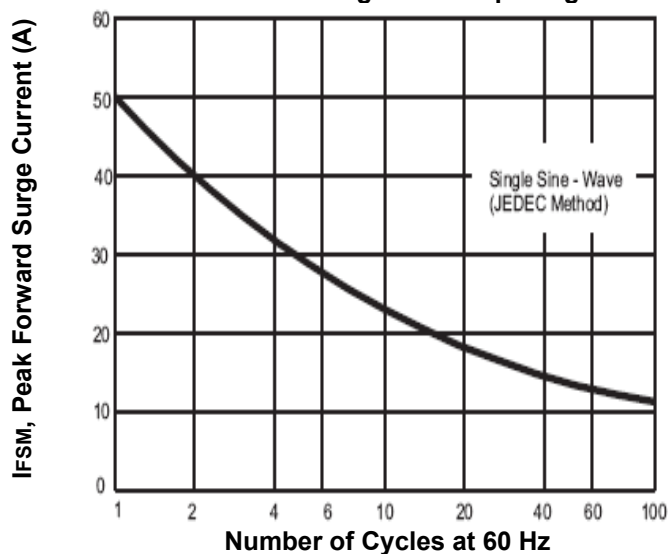


Fig.2-Maximum Non-Repetitive Peak Forward Surge Current per leg



# 1.5A Glass Passivated Bridge Rectifier

## DF1505M - DF1514M

Fig.3-Typical Forward Characteristics per leg

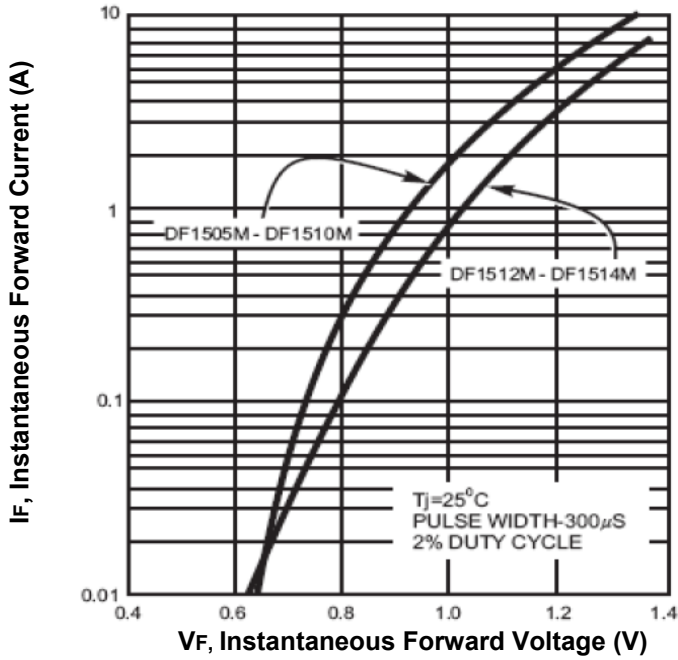


Fig.4-Typical Reverse Leakage Characteristics per leg

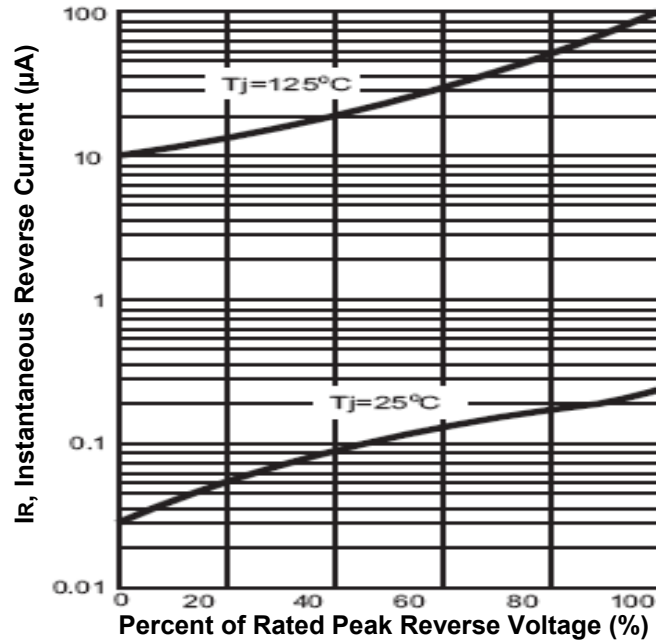
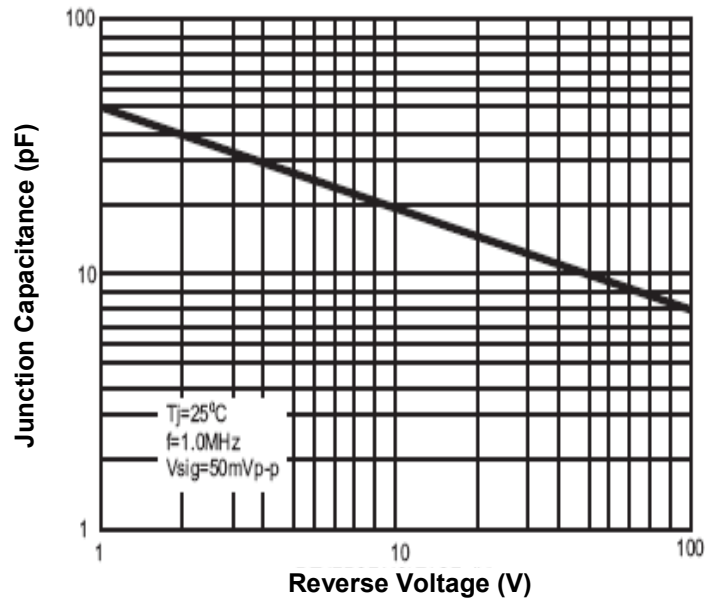


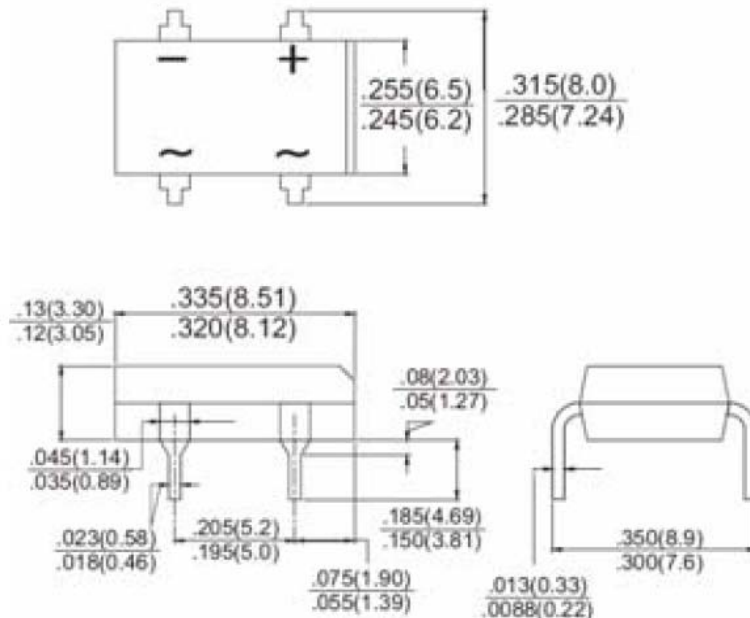
Fig.5- Typical Junction Capacitance



# 1.5A Glass Passivated Bridge Rectifier

## DF1505M - DF1514M

### Dimensions in inch (mm)



DFM

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