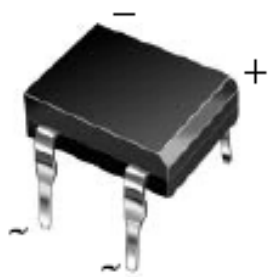
# 1.0A Glass Passivated Bridge Rectifier




DFM

## Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit boards
- Applicable for automotive insertion
- High surge current capability
- This series is UL recognized under component index, File number E194718

## Mechanical Data

| | |
|---|---|
| **Case:** | DFM |
| **Epoxy:** | Plastic package has UL flammability classification 94V-0 |
| **Terminals:** | Leads solderable per MIL-STD-202, method 208 |
| **Polarity:** | As marked on case |
| **Mounting Position:** | Any |
| **Weight:** | 0.02 ounce, 0.4 gram |

## Maximum Ratings And Electrical Characteristics ($T_{amb}$=25˚C)

| Symbol | Description | DF 005M | DF 01M | DF 02M | DF 04M | DF 06M | DF 08M | DF 10M | Unit | Conditions |
|---|---|---|---|---|---|---|---|---|---|---|
| $V_{RRM}$ | Max. Repetitive Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| $V_{RMS}$ | Max. RMS Voltage | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V | |
| $V_{DC}$ | Max. DC Blocking Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V | |
| $I_{F(AV)}$ | Max. Average Forward Rectified Current | 1.0 | | | | | | | A | $T_A$=40° C |
| $I_{FSM}$ | Peak Forward Surge Current | 50 | | | | | | | A | 8.3ms single half sine-wave superimposed on rated load (JEDEC Method) |
| $I^2t$ | Rating for Fusing (t<8.3ms) | 10 | | | | | | | $A^2s$ | |

| Symbol | Description | DF 005M | DF 01M | DF 02M | DF 04M | DF 06M | DF 08M | DF 10M | Unit | Conditions |
|---|---|---|---|---|---|---|---|---|---|---|
| $V_F$ | Max. Instantaneous Forward Voltage Drop per leg | 1.1 | | | | | | | V | $I_F$=1.0A |
| $I_R$ | Max. DC Reverse Current at Rated DC Blocking Voltage per leg | 5.0 | | | | | | | μA | $T_A$=25° C |
| | | 500 | | | | | | | | $T_A$=125° C |
| $C_J$ | Typical Junction Capacitance per leg | 25 | | | | | | | pF | $V_R$=4V, f=1MHz |
| $R_{thJA}$ | Typical Thermal Resistance per leg | 40 | | | | | | | °C / W | Note |
| $R_{thJL}$ | | 15 | | | | | | | | |
| $T_J$,$T_{STG}$ | Operating Junction and Storage Temperature Range | -55 to +150 | | | | | | | ° C | |

**Note:** Thermal resistance from junction to ambient and from junction to lead mounted on P.C.B. with 0.5x0.5” (13x13mm) copper pads.

## Typical Characteristics Curves

**Fig.1- Derating Curve Output Rectified Current**

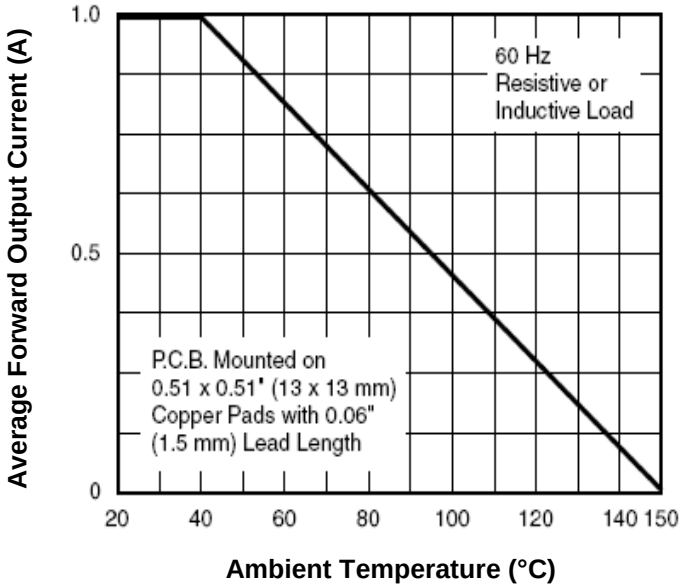



**Fig.2-Max. Non-repetitive Peak Forward Surge Current per leg**

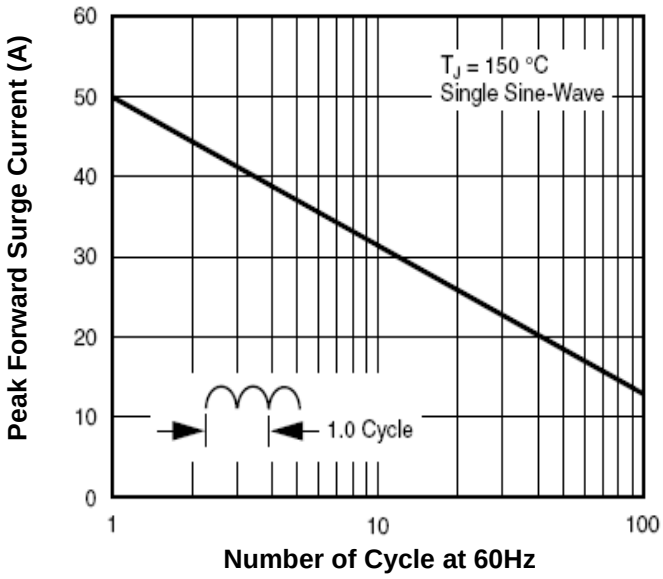


**Fig.3-Typical Instantaneous Forward Characteristic per leg**

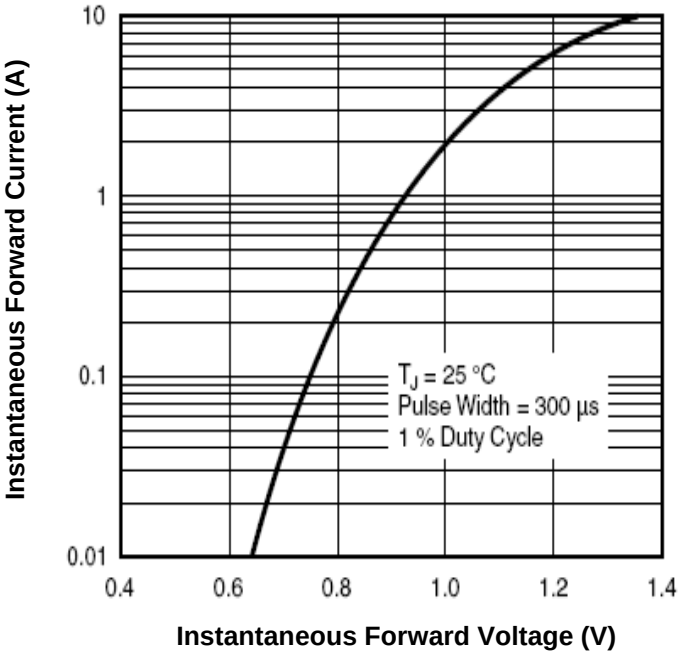



**Fig.4-Typical Reverse Leakage Characteristics per leg**

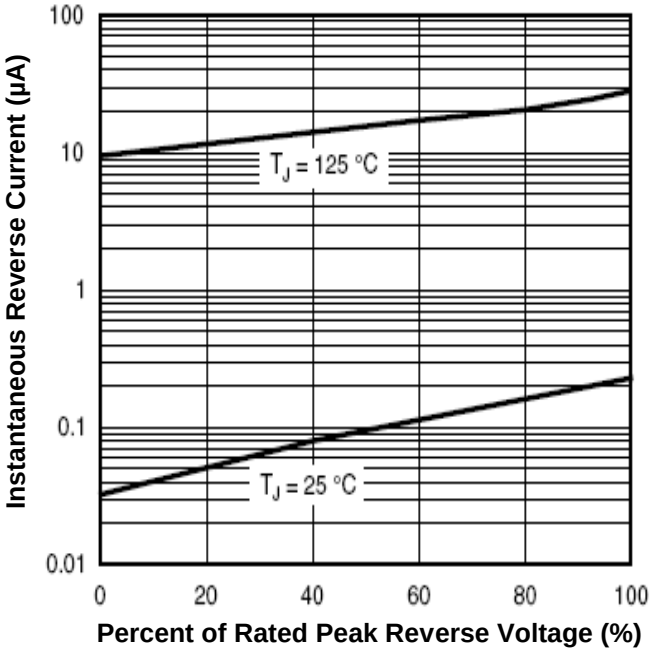
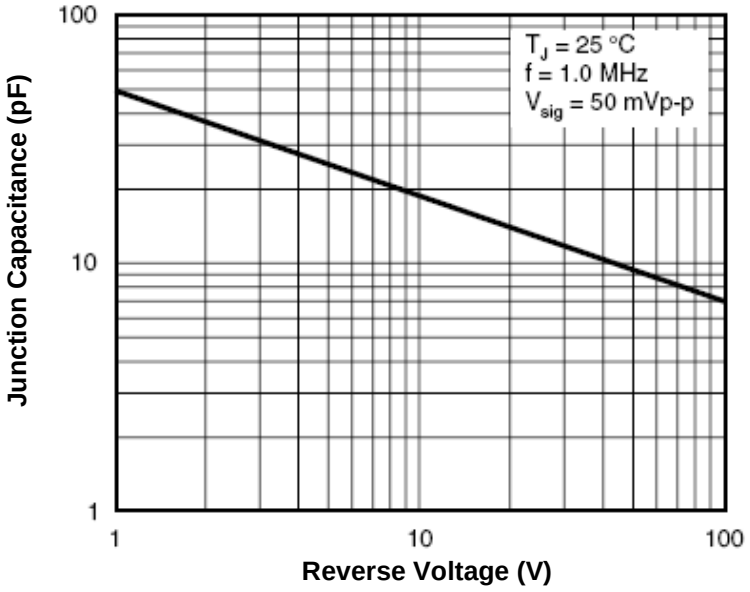
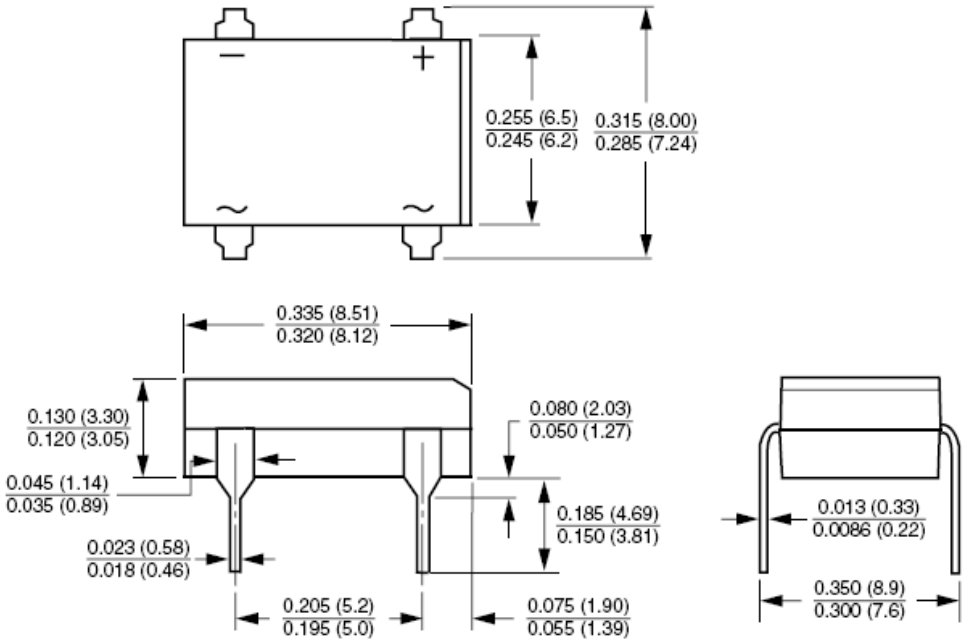



**Fig.5-Typical Junction Capacitance**



## Dimensions in inch (mm)

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