## **Glass Passivated** Bridge Rectifier

# multicomp



#### Features:

- Rating to 1000V PRV
- Ideal for printed circuit board
- · Low forward voltage drop, high current capability
- Reliable low cost construction utilizing molded plastic technique results in inexpensive product
- The plastic material has UL flammability classification 94V-0

#### **Mechanical Data:**

| Polarity          | : As marked on body       |
|-------------------|---------------------------|
| Weight            | : 0.02 ounces, 0.38 grams |
| Mounting Position | : Any                     |
| Reverse Voltage   | : 400 Volts               |
| Forward Current   | : 1 Ampere                |
|                   |                           |

### Maximum Ratings and Electrical Characteristics:

Rating at 25°C ambient temperature unless otherwise specified. Single phase, half wave, 60Hz, resistive or inductive load. For capacitive load, derate current by 20%.

| Characteristics  | Symbol           | Values      | Unit             |
|--|------------------|-------------|------------------|
| Max. Recurrent Peak Reverse Voltage  | Vrrm             | 400         |                  |
| Max. RMS Voltage   | Vrms             | 280         | V                |
| Max. DC Blocking Voltage   | VDC              | 400         |                  |
| Max. Average ForwardRectified Currentat TA = 40°C  | l(AV)            | 1           |                  |
| Peak Forward Surge Current<br>8.3ms Single Half Sine-Wave<br>Super Imposed on Rated Load         | IFSM             | 30          | A                |
| Max. Instantaneous Forward Voltage at 1A DC  | VF               | 1.1         | V                |
| Max. DC Reverse Current at $T_J = 25^{\circ}C$ Rated DC Blocking Voltage at $T_J = 125^{\circ}C$ | IR               | 10<br>500   | μA               |
| I <sup>2</sup> t Rating for Fusing (t<8.3ms)   | l <sup>2</sup> t | 3.735       | A <sup>2</sup> s |
| Typical Junction Capacitance per Element (Note 1)  | CJ               | 25          | pF               |
| Typical Thermal Resistance (Note 2)  | Reja             | 40          | °C/W             |
| Operating Temperature Range  | TJ               | -55 to +150 | °C               |
| Storage Temperature Range  | Тятд             | -55 to +150 | °C               |

#### Notes:

- 1. Measured at 1MHz and applied reverse voltage of 4V DC.
- 2. Thermal resistance from junction to ambient mounted on P.C.B ,with 0.5"×0.5" (13mm×13mm) copper pads.
- 3. The typical data above is for reference only

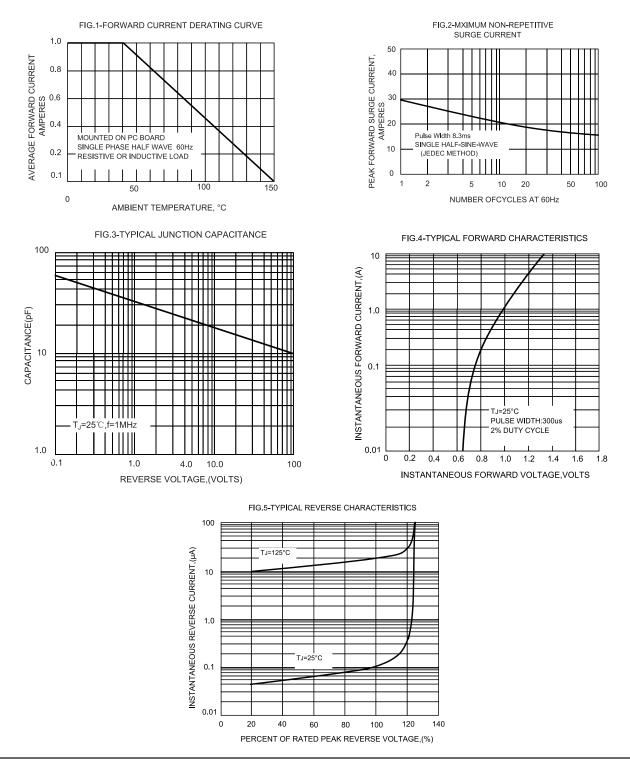
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### **Ratings and Characteristic Curves**



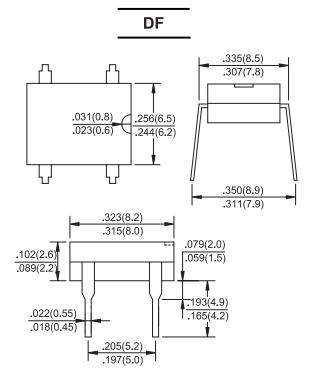
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### **Dimensions:**



Dimensions : Inches (Millimetres)

### Part Number Table

| Description               | Part Number |
|---------------------------|-------------|
| Bridge Rectifier, 1A 400V | DF04+       |

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