

# DBF151 THRU DBF1510

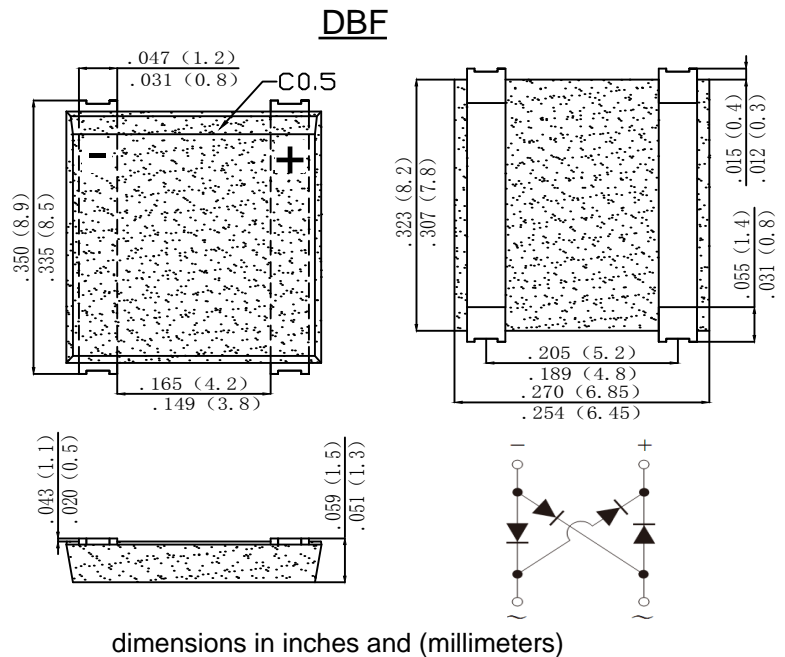
SINGLE PHASE 1.5 AMP SURFACE MOUNT GLASS PASSIVATED BRIDGE RECTIFIER

## Features

- Glass Passivated Die Construction
- Low leakage
- Ideal for printed circuit board
- Surge overload rating-60A peak
- Designed for Surface Mount Application
- Plastic Material-UL Flammability 94V-0

## Mechanical Data

- Case: DBF, molded plastic
- Terminals:Plated Leads Solderable per MIL-STD-202,Method208
- Polarity:As Marked on Case
- Mounting Position:Any
- Marking:Type Number

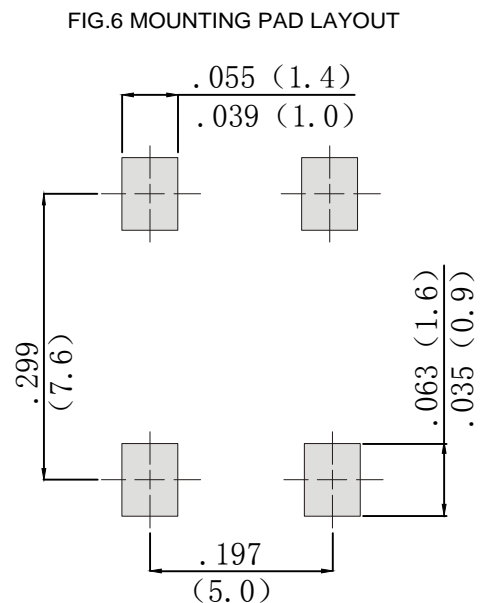
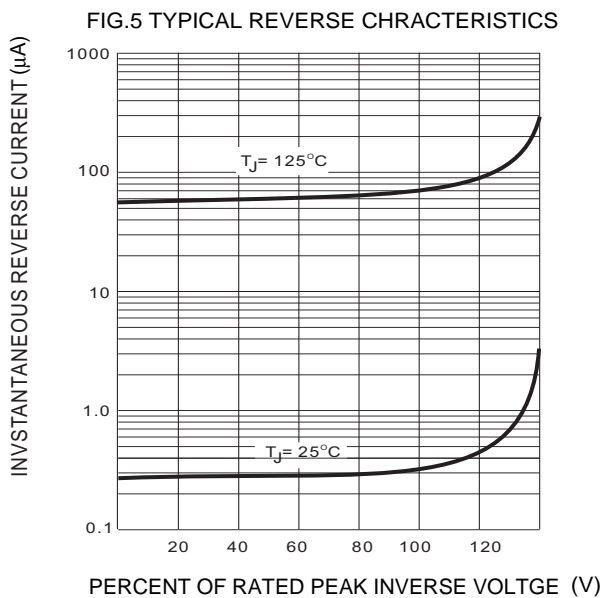
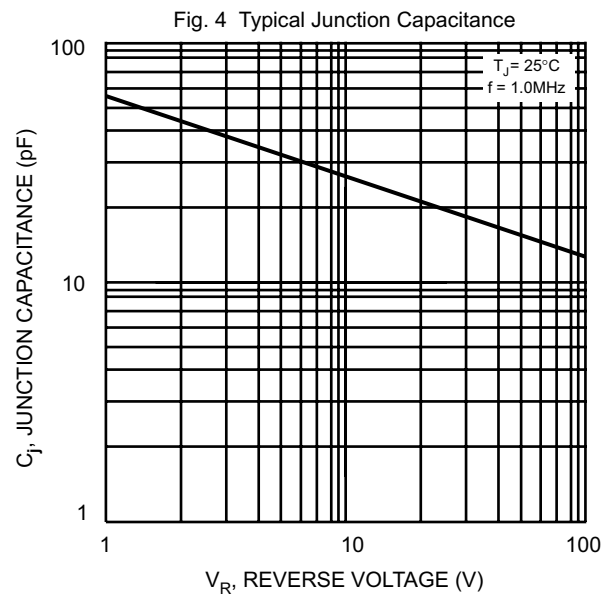
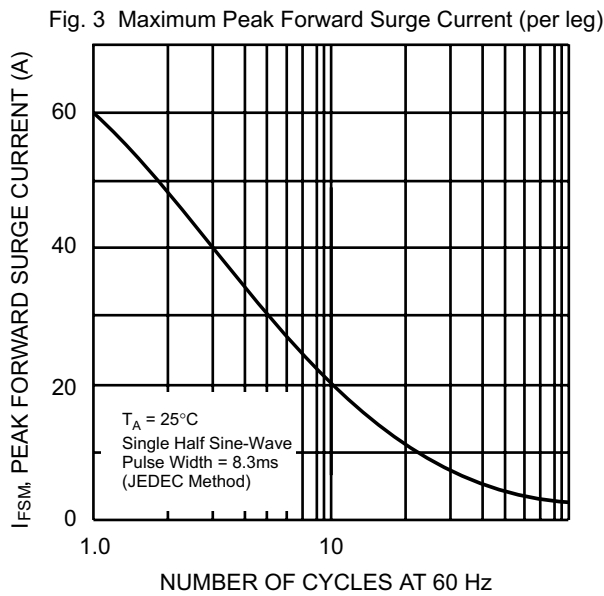
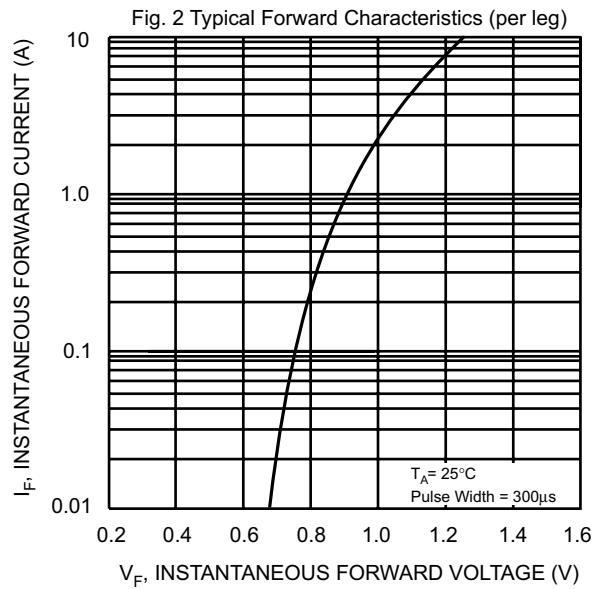
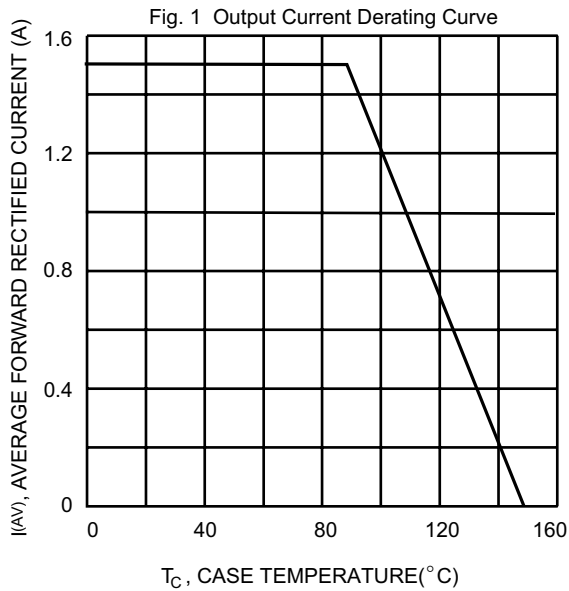


## Maximum Ratings and Electrical Characteristics

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%.

| TYPE NUMBER   | SYMBOL                           | DBF151      | DBF152 | DBF154 | DBF156 | DBF158 | DBF1510 | UNITS            |
|---|----------------------------------|-------------|--------|--------|--------|--------|---------|------------------|
| Peak Repetitive Reverse Voltage   | $V_{RRM}$                        |             |        |        |        |        |         |                  |
| Working Peak Reverse Voltage  | $V_{RWM}$                        | 100         | 200    | 400    | 600    | 800    | 1000    | V                |
| DC Blocking Voltage   | $V_{DC}$                         |             |        |        |        |        |         |                  |
| RMS Reverse Voltage   | $V_{RMS}$                        | 70          | 140    | 280    | 420    | 560    | 700     | V                |
| Average Rectified Output Current (Note 1)@T <sub>c</sub> =90°C  | IF(AV)                           | 1.5         |        |        |        |        |         | A                |
| Non-Repetitive Peak Forward Surge Current 8.3ms<br>Single half sine-wave superimposed on rated load<br>(JEDEC Method) | I <sub>FSM</sub>                 | 60          |        |        |        |        |         | A                |
| I <sup>2</sup> t Rating for Fusing (t < 8.3ms)  | I <sup>2</sup> t                 | 14.94       |        |        |        |        |         | A <sup>2</sup> s |
| Forward Voltage per element @IF=0.75A<br>@IF=1.5A   | $V_{FM}$                         | 0.95<br>1.0 |        |        |        |        |         | V                |
| Peak Reverse Current @T <sub>A</sub> =25°C<br>At Rated DC Blocking Voltage @T <sub>A</sub> =125°C                     | I <sub>R</sub>                   | 5.0<br>200  |        |        |        |        |         | uA               |
| Typical Junction Capacitance per leg (Note 2)   | C <sub>J</sub>                   | 35          |        |        |        |        |         | pF               |
| Typical Thermal Resistance per leg  | R <sub>θJA</sub>                 | 70          |        |        |        |        |         | °C/W             |
|   | R <sub>θJC</sub>                 | 15          |        |        |        |        |         |                  |
| Operating and Storage Temperature Range   | T <sub>J</sub> ,T <sub>STG</sub> | -55to+150   |        |        |        |        |         | °C               |

Note:1. Mounted on glass epoxy PC board with 1.3mm<sup>2</sup> solder pad.  
 2. Measured at 1.0 MHz and applied reverse voltage of 4.0V D.C.



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