

GLASS PASSIVATED BRIDGE RECTIFIERS

REVERSE VOLTAGE - **50 to 1000** Volts
FORWARD CURRENT - **1.5** Amperes

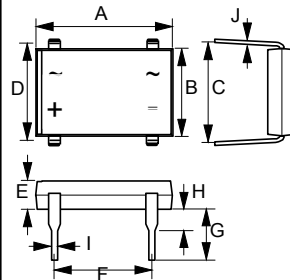
FEATURES

- 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
- UL recognized file # E95060

MECHANICAL DATA

- Polarity : As marked on Body
- Weight : 0.02 ounces, 0.38 grams
- Mounting position : Any

DF



| DF | | |
|------------------------------|------|------|
| DIM. | MIN. | MAX. |
| A | 8.20 | 8.50 |
| B | 6.20 | 6.50 |
| C | 7.60 | 8.90 |
| D | 7.40 | 7.60 |
| E | 2.40 | 2.60 |
| F | 5.00 | 5.20 |
| G | 4.10 | 4.60 |
| H | 1.27 | 2.03 |
| I | 0.41 | 0.51 |
| J | 0.22 | 0.30 |
| All Dimensions in millimeter | | |

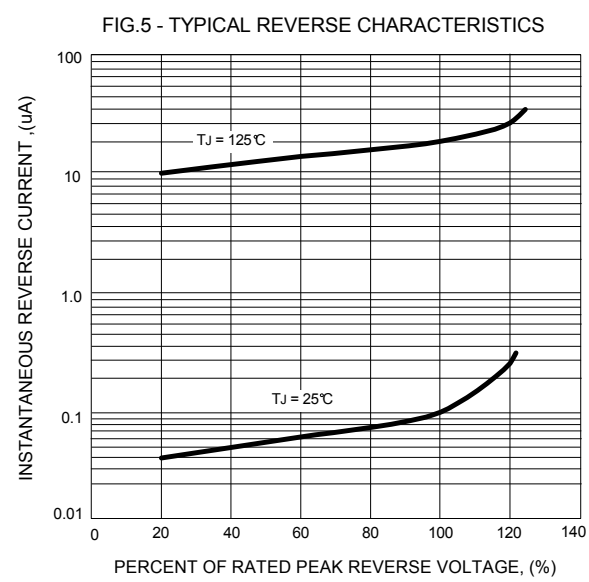
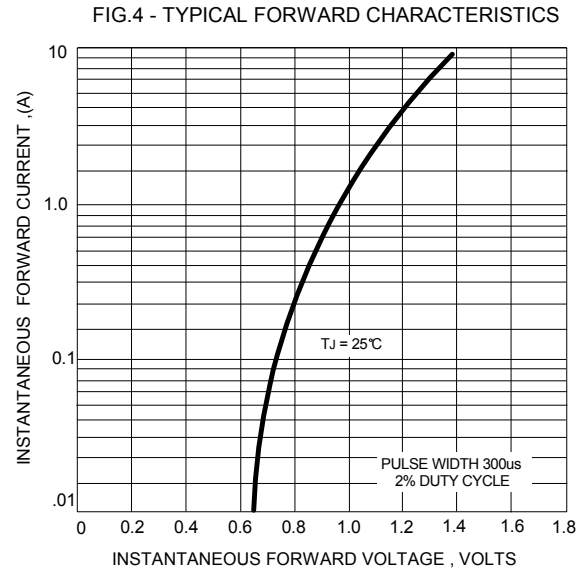
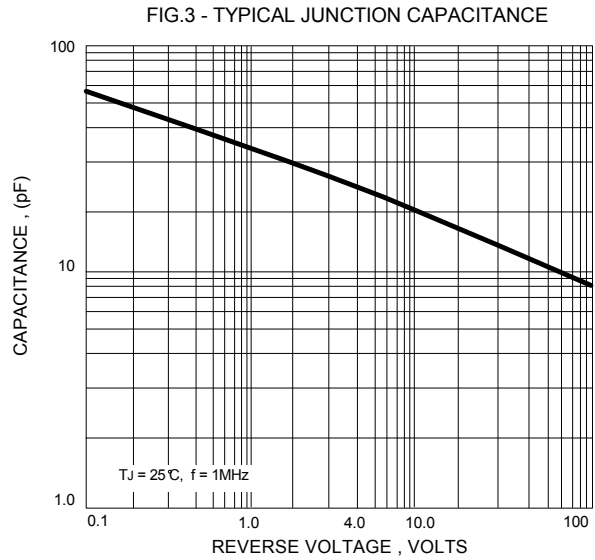
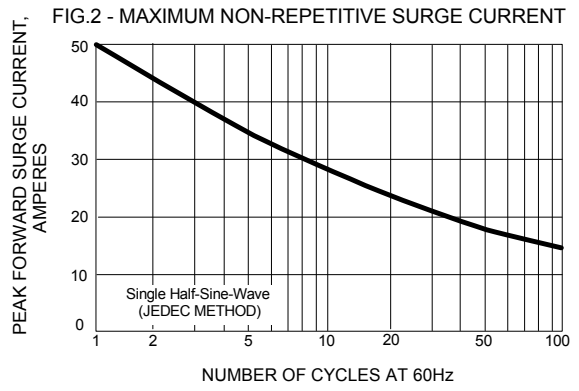
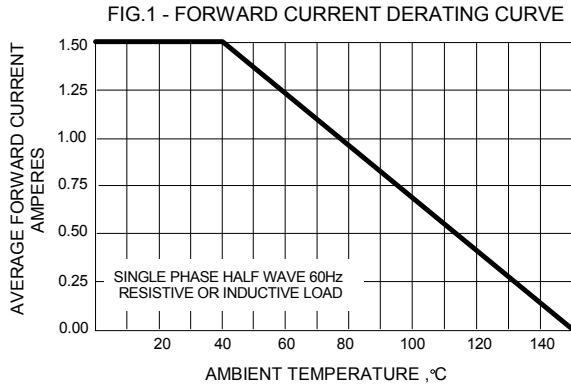
MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.

| CHARACTERISTICS | SYMBOL | DF 15005M | DF 1501M | DF 1502M | DF 1504M | DF 1506M | DF 1508M | DF 1510M | UNIT |
|--|-------------------|-------------|----------|----------|----------|----------|----------|----------|------------------|
| Maximum Recurrent Peak Reverse Voltage | V _{RRM} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum RMS Voltage | V _{RMS} | 35 | 70 | 140 | 280 | 420 | 560 | 700 | V |
| Maximum DC Blocking Voltage | V _{DC} | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| Maximum Average Forward Rectified Current @T _A =40°C | I _(AV) | 1.5 | | | | | | | A |
| Peak Forward Surge Current 8.3ms single half sine-wave superimposed on rated load (JEDEC METHOD) | I _{FSM} | 50 | | | | | | | A |
| Maximum forward Voltage at 1.5A DC | V _F | 1.1 | | | | | | | V |
| Maximum DC Reverse Current at Rated DC Blocking Voltage @T _J =25°C @T _J =125°C | I _R | 10 500 | | | | | | | uA uA |
| I ² t Rating for fusing (t < 8.3ms) | I ² t | 10.4 | | | | | | | A ² S |
| Typical Junction Capacitance per element (Note 1) | C _J | 25 | | | | | | | pF |
| Typical Thermal Resistance (Note 2) | R _{θJA} | 40 | | | | | | | °C/W |
| Operating Temperature Range | T _J | -55 to +150 | | | | | | | °C |
| Storage Temperature Range | T _{STG} | -55 to +150 | | | | | | | °C |

NOTES : 1.Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
2.Thermal resistance from junction to ambient mounted on P.C.B with 0.5 x 0.5"(13x13mm) copper pads.

REV. 5, Sep-2010, KBDC02



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