

# DB102S Thru DB107S

**High Current Glass Passivated Molding Single-Phase Bridge Rectifier**

**Reverse Voltage 100 to 1000V Forward Current 1.0 A**

## FEATURES

- I Plastic Package has Underwriters Laboratory Flammability Classification 94V-0
- I High current capacity with small package
- I Glass passivated chip junctions
- I Superior thermal conductivity
- I High IFSM



## 1. Maximum & Thermal Characteristics Ratings at 25°C ambient temperature unless otherwise specified.

| Parameter Symbol  | Symbol            | DB102S  | DB103S | DB104S | DB105S | DB106S | DB107S | Unit |
|---|-------------------|---------|--------|--------|--------|--------|--------|------|
| Maximum repetitive voltage  | VRRM              | 100     | 200    | 400    | 600    | 800    | 1000   | V    |
| Maximum RMS Voltage   | VRMS              | 70      | 140    | 280    | 420    | 560    | 700    | V    |
| Maximum DC Blocking Voltage   | VDC               | 100     | 200    | 400    | 600    | 800    | 1000   | V    |
| Maximum DC reverse current TA=25 °C   | IR                | 5       |        |        |        |        |        | µA   |
| at rated DC blocking voltage TA=125°C   |                   | 500     |        |        |        |        |        |      |
| Average rectified forward current 60Hz Sine wave Resistance load with Ta=55°C     | Io                | 1.0     |        |        |        |        |        | A    |
| Peak forward surge current 8.3ms single half sine-wave superimposed on rated load | IFSM              | 50      |        |        |        |        |        | A    |
| Max instantaneous forward voltage at 1.0A   | VF                | 1.05    |        |        |        |        |        | V    |
| Thermal Resistance  |                   |         |        |        |        |        |        |      |
| Between junction and ambient  | R <sub>θJ-A</sub> | 134     |        |        |        |        |        | °C/W |
| Between junction and lead   | R <sub>θJ-L</sub> | 20      |        |        |        |        |        |      |
| Operating junction temperature  | TJ                | -55~150 |        |        |        |        |        | °C   |
| Storage temperature   | Tstg              | -55~150 |        |        |        |        |        | °C   |

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## 2. Ratings and Characteristic Curves (TA = 25°C unless otherwise noted)

Fig. 1 Derating Curve

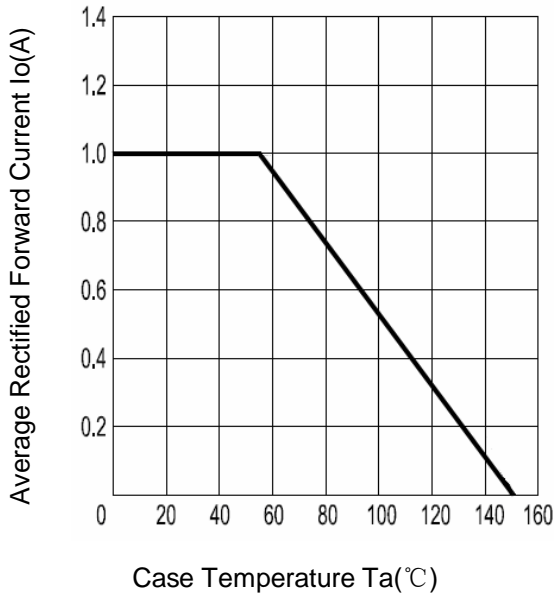


Fig.2 Typical Reverse Characteristics

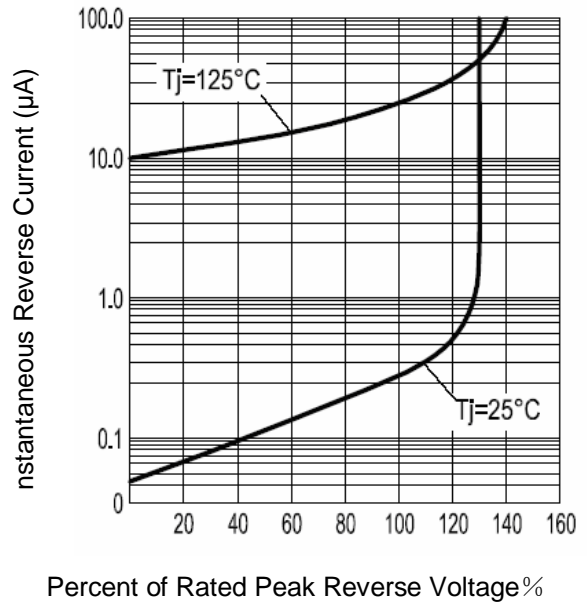


Fig.3 Forward Voltage

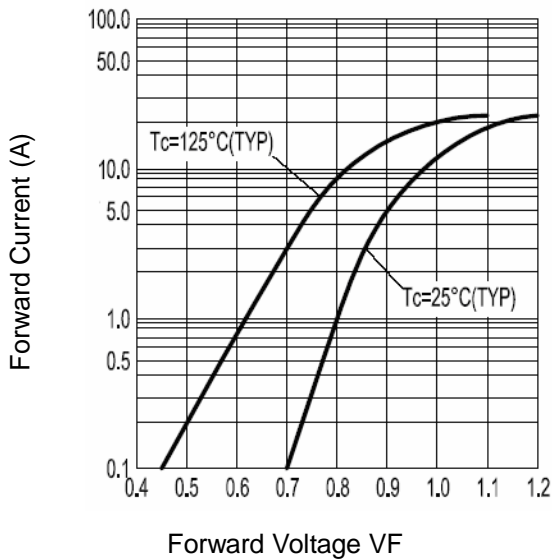
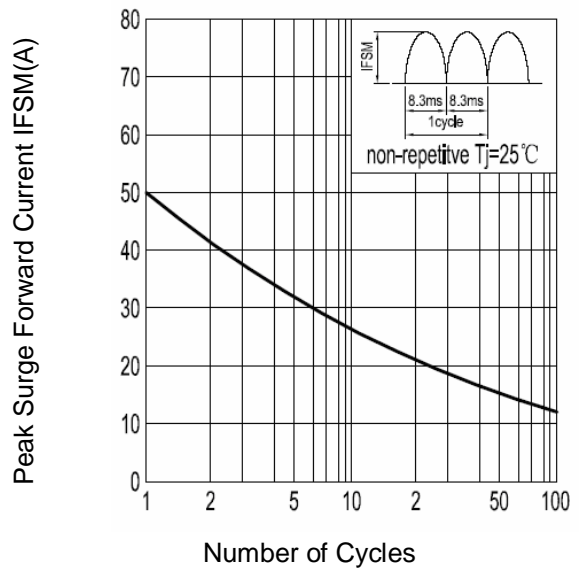
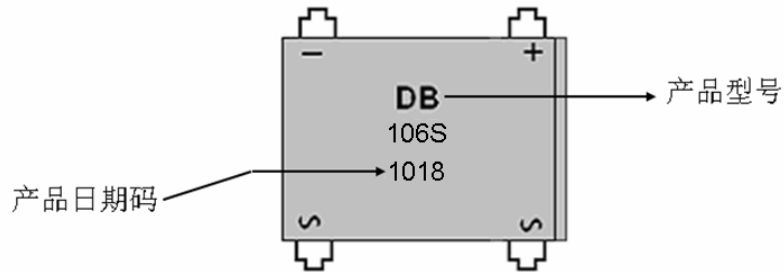


Fig.4 Peak Surge Forward Capability



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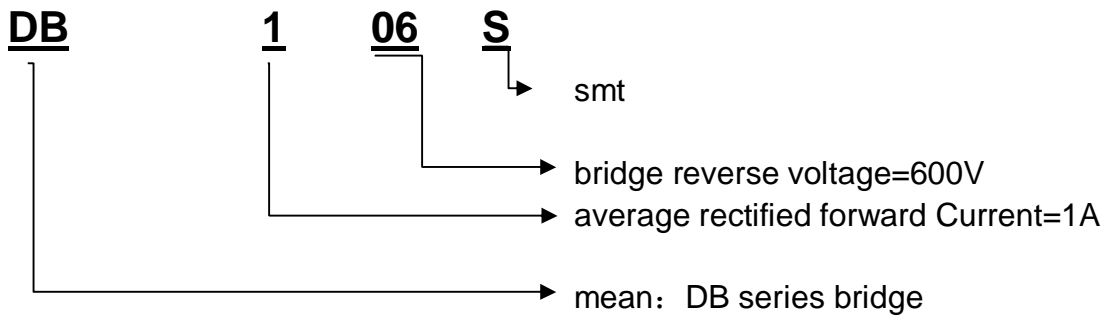
## 3. Marking Identification



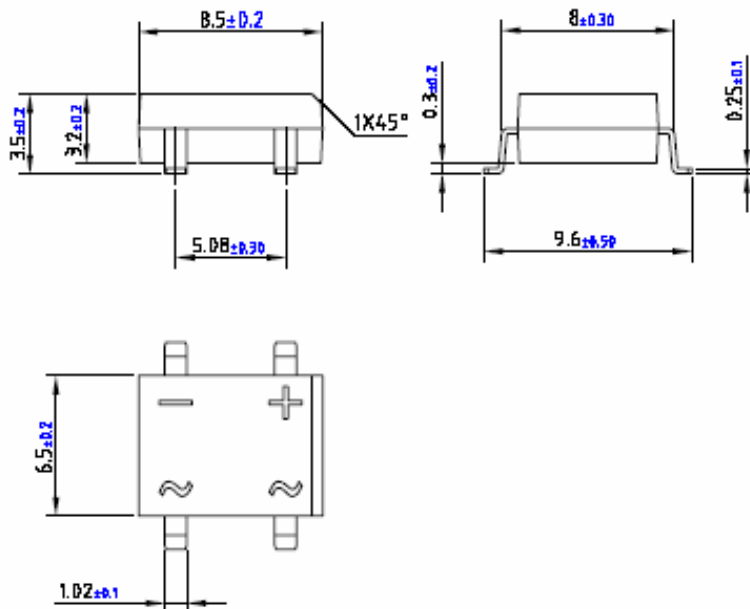
**Note:**

生产日期码包含4位数字，例如“1018”，前两个数字“10”表示为2010年，另外二个数字“18”是指第18周，即表示该产品为2010年18周生产。

型号:



## 4. Dimension



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