# 1A Glass Passivated Single-Phase Bridge Retifier

## 特征/Features

- GPP芯片
  Glass passivated chip
- 低反向漏电流
  Low Reverse Leakage Current
- 高耐浪涌电流能力
  High surge current capability
- 接线端与壳体间绝缘耐压2500V
  Case to Terminal Isolation Voltage 2500V

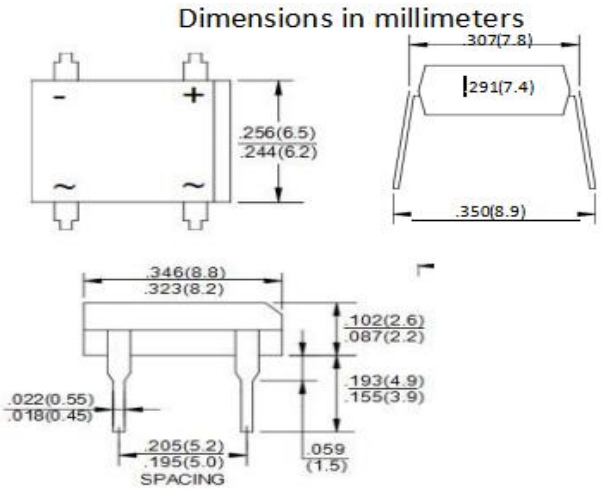
## 机械参数/Machanical Data

- 本体：塑封
  Case: plastic package
- 标识/极性：本体标记
  Marking / Polarity: Marked on Body
- 重量：约克
  Weight: About 0.35 grams
- Marking: DF005M-DF10M

## 外形尺寸/Outline Dimensions

**Case: DFM Series**

Dimensions in millimeters




## 极限值/Maximum Ratings and Thermal Characteristics @ Ta = 25℃ unless otherwise noted

| 符号 Symbol | 特性 Characteristic | DF | | | | | | | 单位 Unit |
|---|---|---|---|---|---|---|---|---|---|
| | | 005M | 01M | 02M | 04M | 06M | 08M | 10M | |
| $V_{RRM}$ | 最大反向重复峰值电压<br>Maxmum Recurrent Peak Reverse Voltage | 50 | 100 | 200 | 400 | 600 | 800 | 1000 | V |
| $I_{F(AV)}$ | 平均整流输出电流<br>Average Forward Output Rectified Current@Ta =85℃ | 1 | | | | | | | A |
| $V_F$ | 正向峰值电压<br>Forward Voltage Per Leg @$I_{FM}$ =1A | 1.0 | | | | | | | V |
| $I_{FSM}$ | 正向浪涌电流<br>Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load | 45 | | | | | | | A |
| $I_R$ | 反向漏电流<br>Maximum DC reverse current at rated Ta = 25℃<br>DC blocking voltage per leg Ta = 125℃ | 5<br>500 | | | | | | | uA |
| $i^2t$ | 热容值<br>Rating for fusing (t<8.3ms) | 10 | | | | | | | $A^2S$ |
| $V_{isol}$ | 绝缘耐压<br>Rms isolation voltage from case to leads | 32 | | | | | | | V |
| $R_{\theta JC}$ | 热阻<br>Maximum thermal resistance per leg | 32 | | | | | | | ℃/W |
| Tj, $T_{STG}$ | 结温， 存储条件<br>Operating Junction and storage temperature range | -55～150 | | | | | | | ℃ |

Note:
(1) Junction to case with heatsink
(2) Recommended mounting position is to bolt down on heatsink with silicone thermal compound for maximum heat transfer with M3 screw .

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## ■特性曲线（典型） Characteristics(Typical)

Fig 1-forwardCurrent derating Curve
图1正向电流降额曲线

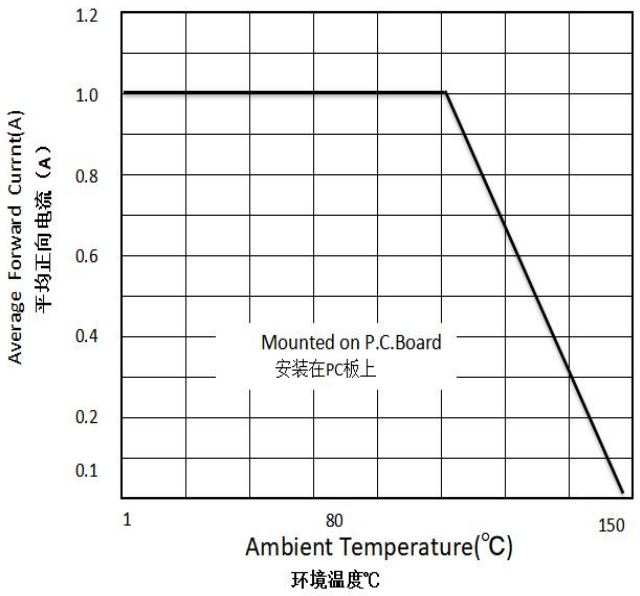


Fig.2-Maximum Non-Repetitive Surge Current
图2最大不重复正向浪涌曲线

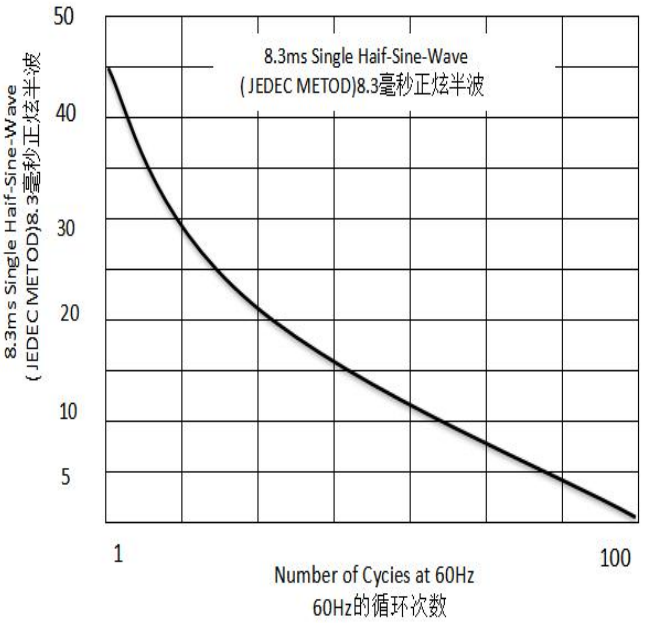


Fig.3-Typical Reverse Characteristics
图3.典型的反向特性

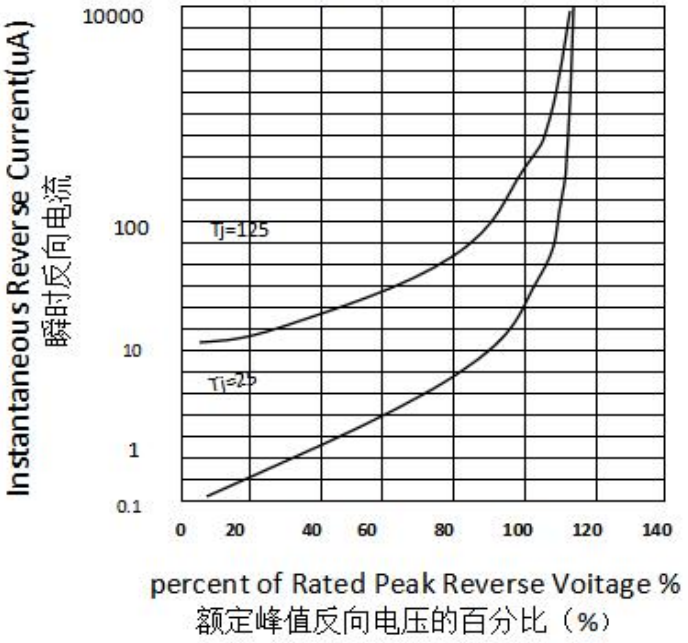


Fig.4-Typical Forwaed Characteristics
图4.典型的正向特性