

10A Glass Passivated Single-Phase Bridge Rectifier

| 特征/Features                                                                                                                                                                                                                                                          | 外形尺寸/Outline Dimensions                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>◆ GPP芯片<br/>Glass passivated chip</li> <li>◆ 低反向漏电流<br/>Low Reverse Leakage Current</li> <li>◆ 高耐浪涌电流能力<br/>High surge current capability</li> <li>◆ 接线端与壳体间绝缘耐压2500V<br/>Case to Terminal Isolation Voltage 2500V</li> </ul> | <p><b>Case: GBL Series</b><br/>Dimensions in millimeters</p> |
| 机械参数/Mechanical Data                                                                                                                                                                                                                                                 |                                                              |
| <ul style="list-style-type: none"> <li>◆ 本体：塑封<br/>Case: plastic package</li> <li>◆ 标识/极性：本体标记<br/>Marking / Polarity: Marked on Body</li> <li>◆ 重量：约克<br/>Weight: About 2.20 grams</li> </ul>                                                                       |                                                              |

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

| 符号<br>Symbol                      | 特性 Characteristic                                                                           | GBL10    |     |     |     |     |     |      | 单位<br>Unit       |
|-----------------------------------|---------------------------------------------------------------------------------------------|----------|-----|-----|-----|-----|-----|------|------------------|
|                                   |                                                                                             | 005      | 01  | 02  | 04  | 06  | 08  | 10   |                  |
| V <sub>RRM</sub>                  | 最大反向重复峰值电压<br>Maximum Recurrent Peak Reverse Voltage                                        | 50       | 100 | 200 | 400 | 600 | 800 | 1000 | V                |
| I <sub>F (AV)</sub>               | 平均整流输出电流<br>Average Forward Output Rectified Current@Ta =85℃                                | 10       |     |     |     |     |     |      | A                |
| V <sub>F</sub>                    | 正向峰值电压<br>Forward Voltage Per Leg @I <sub>FM</sub> =10.0A                                   | 1.1      |     |     |     |     |     |      | V                |
| I <sub>FSM</sub>                  | 正向浪涌电流<br>Peak Forward Surge Current 8.3ms Single Half Sine-wave superimposed on rated load | 210      |     |     |     |     |     |      | A                |
| I <sub>R</sub>                    | 反向漏电流<br>Maximum DC reverse current at rated DC blocking voltage per leg                    | 5<br>500 |     |     |     |     |     |      | uA               |
| i <sup>2</sup> t                  | 热容值<br>Rating for fusing (t<8.3ms)                                                          | 180      |     |     |     |     |     |      | A <sup>2</sup> S |
| V <sub>isol</sub>                 | 绝缘耐压<br>Rms isolation voltage from case to leads                                            | 2500     |     |     |     |     |     |      | V                |
| R <sub>θJC</sub>                  | 热阻<br>Maximum thermal resistance per leg                                                    | 4.2      |     |     |     |     |     |      | ℃/W              |
| T <sub>j</sub> , T <sub>STG</sub> | 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

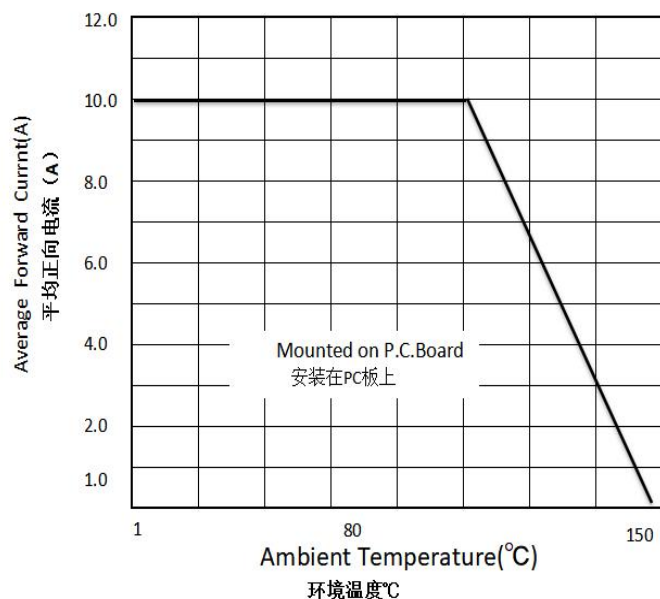


Fig.2-Maximum Non-Repetitive Surge Current

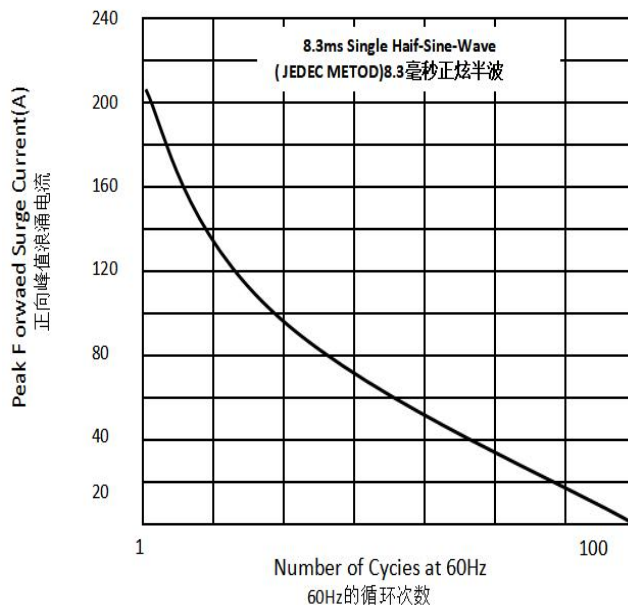


Fig.3-Typical Reverse Characteristics

图3.典型的反向特性

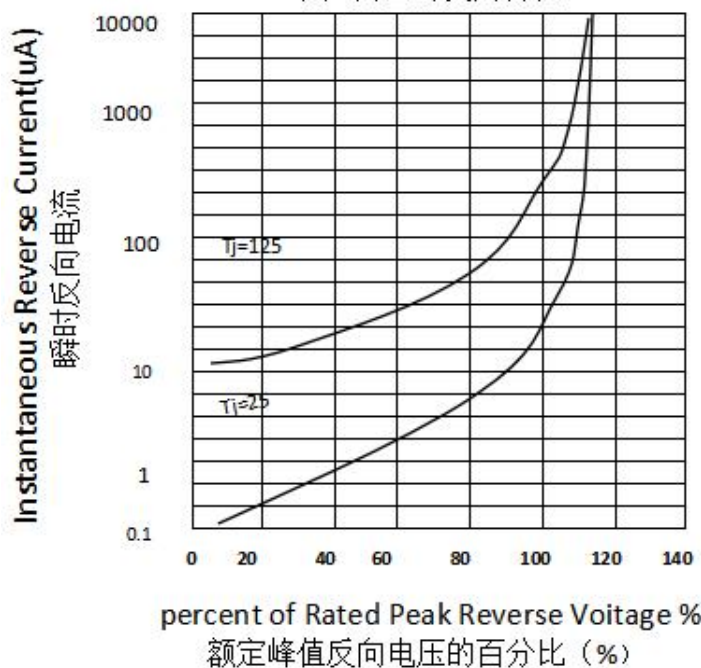


Fig.4-Typical Forward Characteristics

图4.典型的正向特性

