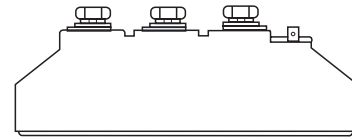


### 特点

- 1). 芯片与底板电气绝缘, 2500V交流电压
- 2). 全压接结构, 优良的温度特性和功率循环能力
- 3). 体积小, 重量轻



### 典型应用

- 1). 交直流电机控制
- 2). 各种整流电源
- 3). 变频器

|             |                        |
|-------------|------------------------|
| $I_{F(AV)}$ | 55A                    |
| $V_{RRM}$   | 600~1800V              |
| $I_{FSM}$   | $1.3 A \times 10^3$    |
| $I^2t$      | $8.6 A^2S \times 10^3$ |

### 主要参数

| 符号            | 参数         | 测试条件  | 结温              | 参数值  |     |       | 单位                 |
|---------------|------------|---|-----------------|------|-----|-------|--------------------|
|               |            |   | $T_j(^\circ C)$ | 最小   | 典型  | 最大    |                    |
| $I_{F(AV)}$   | 正向平均电流     | 180° 正弦半波, 50Hz, 单面散热, $T_c=100^\circ C$      | 150             |      |     | 55    | A                  |
| $I_{F(RMS)}$  | 方均根电流      |   | 150             |      |     | 86    | A                  |
| $V_{RRM}$     | 反向重复峰值电压   | $V_{RRM}$ tp=10ms, $V_{RSM} = V_{RRM} + 200V$ | 150             | 600  |     | 1800  | V                  |
| $I_{RRM}$     | 反向重复峰值电流   | $V_{RM} = V_{RRM}$                            | 150             |      |     | 8     | mA                 |
| $I_{FSM}$     | 正向不重复浪涌电流  |   | 150             |      |     | 1.30  | KA                 |
| $I^2t$        | 浪涌电流平方时间积  | 10ms底宽, 正弦半波, $V_R = 0.6V_{RRM}$              | 150             |      |     | 8.6   | $A^2s \times 10^3$ |
| $V_{FO}$      | 门槛电压       |   | 150             |      |     | 0.80  | V                  |
| $r_F$         | 斜率电阻       |   | 150             |      |     | 3.47  | mΩ                 |
| $V_{FM}$      | 正向峰值电压     | $I_{FM} = 170A$                               | 25              |      |     | 1.45  | V                  |
| $R_{th(j-c)}$ | 热阻抗(结至散热器) | 180° 正弦半波, 单面散热                               |                 |      |     | 0.700 | $^\circ C / W$     |
| $R_{th(c-h)}$ | 热阻抗(壳至散)   | 180° 正弦半波, 单面散热                               |                 |      |     | 0.2   | $^\circ C / W$     |
| $V_{iso}$     | 绝缘电压       | 50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$      |                 | 2500 |     |       | V                  |
| $F_m$         | 安装扭矩(M5)   |   |                 |      | 4   |       | N·m                |
|               | 安装扭矩(M6)   |   |                 |      | 6   |       | N·m                |
| $T_{stg}$     | 贮存温度       |   |                 | -40  |     | 125   | $^\circ C$         |
| $W_t$         | 质量         | 外形为101F                                       |                 |      | 115 |       | g                  |
| Size          | 包装盒尺寸      | 210 × 113 × 42 (10只装)                         |                 |      |     |       | mm                 |

性能曲线图

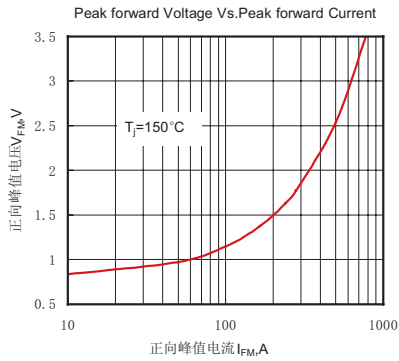


Fig.1 正向伏安特性曲线

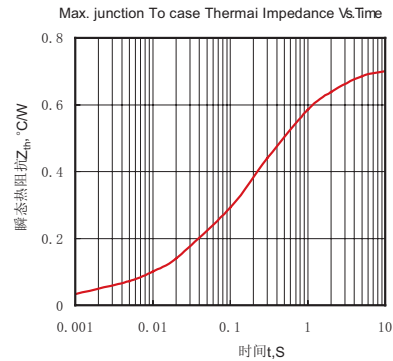


Fig.2 瞬态热阻抗曲线

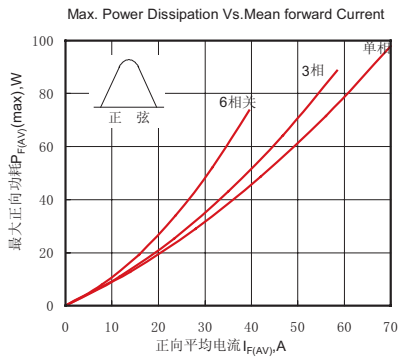


Fig.3最大正向功耗与平均电流的关系曲线

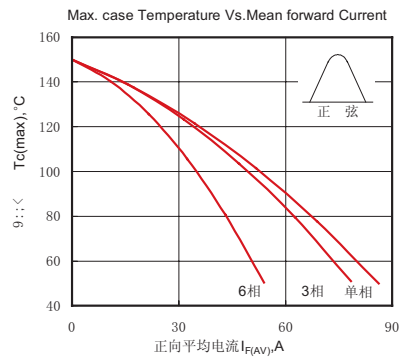


Fig.4管壳温度与正向平均电流的关系曲线

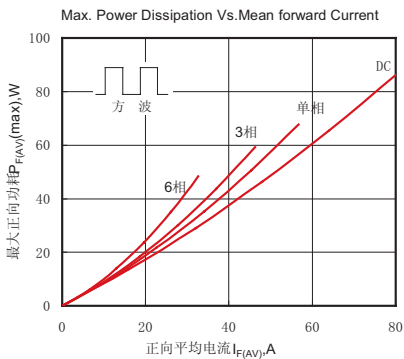


Fig.5最大正向功耗与平均电流的关系曲线

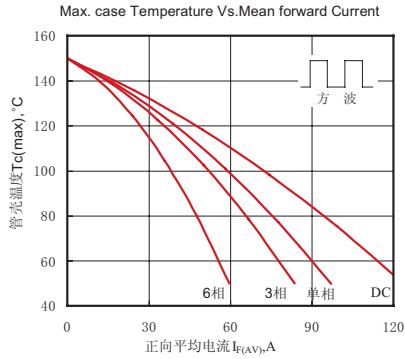


Fig.6管壳温度与正向平均电流的关系曲线

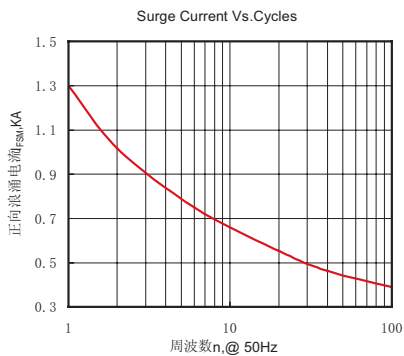


Fig.7 正向浪涌电流与周波数的关系曲线

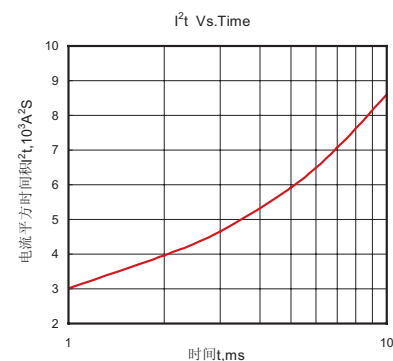
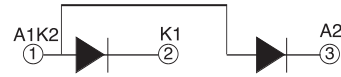
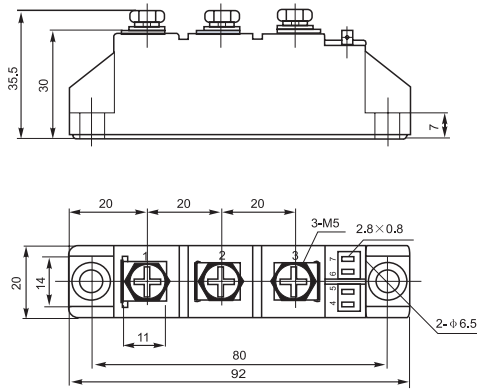


Fig.8 I<sup>2</sup>t特性曲线

外形尺寸图



101F

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