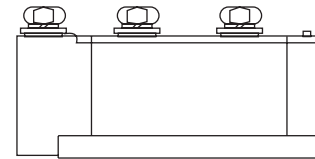


特点

- 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 | $I_{F(AV)}$ | 400A |
| 2). 各种整流电源 | V_{RRM} | 600~1800V |
| 3). 变频器 | I_{FSM} | $15 A \times 10^3$ |
| | I^2t | $1150 A^2S \times 10^3$ |

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 | | | 400 | A |
| $I_{F(RMS)}$ | 方均根电流 | | 150 | | | 628 | 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 | | | 30 | mA |
| I_{FSM} | 正向不重复浪涌电流 | | 150 | | | 17.0 | 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 | | | 1470 | $A^2s \times 10^3$ |
| V_{FO} | 门槛电压 | | 150 | | | 0.75 | V |
| r_F | 斜率电阻 | | 150 | | | 0.50 | mΩ |
| V_{FM} | 正向峰值电压 | $I_{FM} = 1200A$ | 25 | | | 1.48 | V |
| $R_{th(j-c)}$ | 热阻抗(结至散热器) | 180° 正弦半波, 单面散热 | | | | 0.100 | $^\circ C / W$ |
| $R_{th(c-h)}$ | 热阻抗(壳至散) | 180° 正弦半波, 单面散热 | | | | 0.04 | $^\circ C / W$ |
| V_{iso} | 绝缘电压 | 50Hz, R.M.S, t=1min, $I_{iso}: 1mA(max)$ | | 2500 | | | V |
| F_m | 安装扭矩(M10) | | | | 12 | | 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501F | | | 1350 | | g |
| Size | 包装盒尺寸 | 140 × 68 × 68 (1只装) | | | | | mm |

性能曲线图

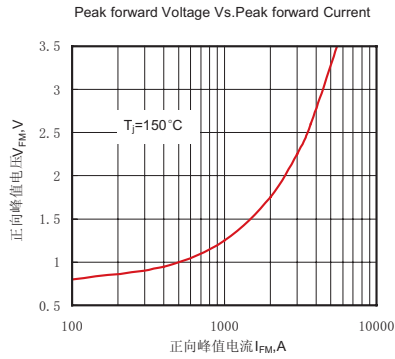


Fig.1 正向伏安特性曲线

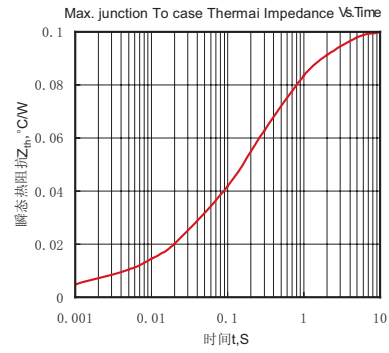


Fig.2 瞬态热阻抗曲线

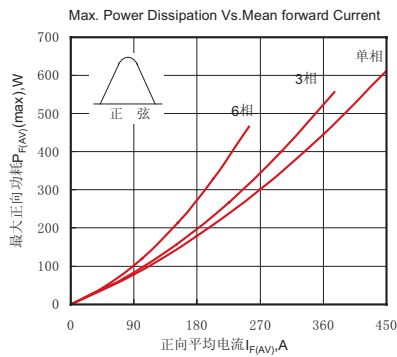


Fig.3最大正向功耗与平均电流的关系曲线。

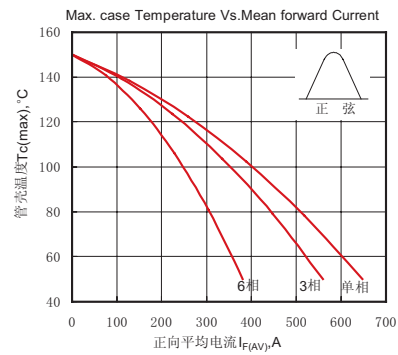


Fig.4管壳温度与正向平均电流的关系曲线

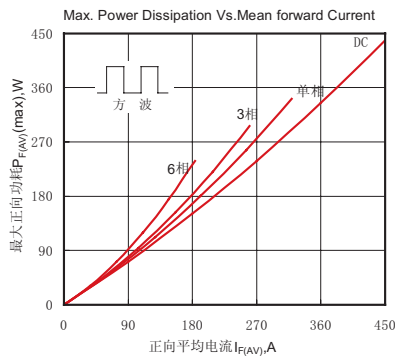


Fig.5最大正向功耗与平均电流的关系曲线

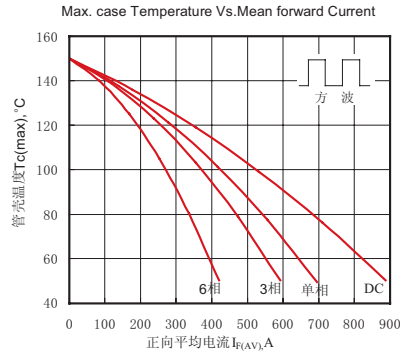


Fig.6管壳温度与正向平均电流的关系曲线

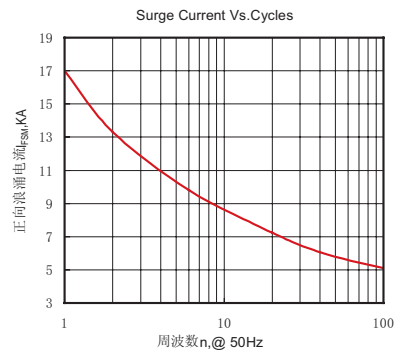


Fig.7 正向浪涌电流与周波数的关系曲线

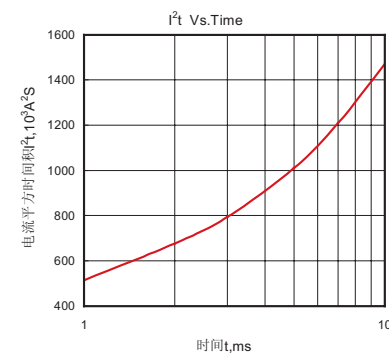
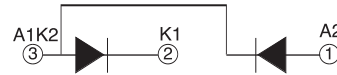
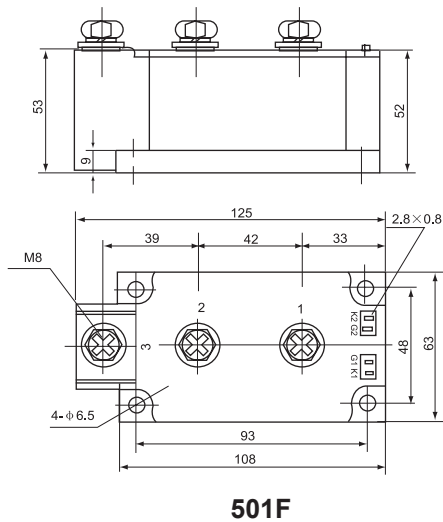


Fig.8 I²t特性曲线

外形尺寸图



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