

广州金永利电子有限公司

NON INSULATED TYPE TRIAC

**HTP8A60**

对应国外型号  
BCR8CM-12, BT137-600

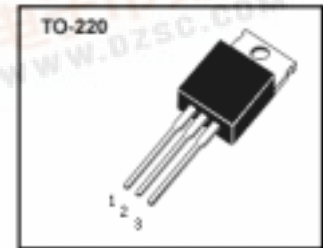
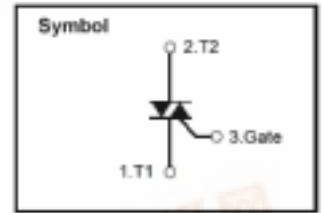
**主要用途**

非绝缘型双向可控硅, 用于交流开关、风扇控制、温度控制、照明控制等

**极限值 (Ta=25 )**

|   |         |
|---|---------|
| T <sub>stg</sub> ——贮存温度.....                        | -40~125 |
| T <sub>j</sub> ——结温.....                            | -40~125 |
| P <sub>GM</sub> ——峰值门极功耗.....                       | 5 W     |
| V <sub>DRM</sub> ——重复峰值断态电压.....                    | 600V    |
| I <sub>T (RMS)</sub> ——RMS 通态电流 (Ta=105 ).....      | 8A      |
| V <sub>GM</sub> ——峰值门极电压.....                       | 10 V    |
| I <sub>GM</sub> ——峰值门极电流.....                       | 2.0A    |
| I <sub>TSM</sub> ——浪涌通态电流(一个周期,50/60Hz,峰值,不重复)..... | 80/88A  |

**外形图及引脚排列**

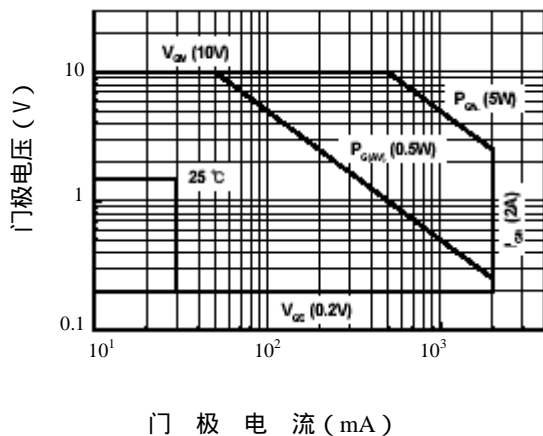


**电参数 (Ta=25 )**

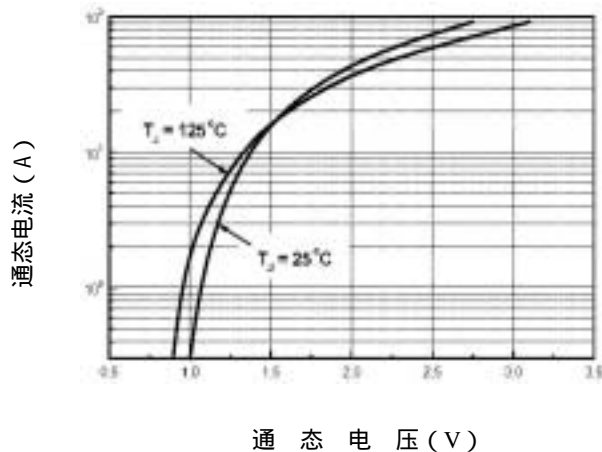
| 参数符号                 | 符号说明      | 最小值  | 典型值 | 最大值 | 单位   | 测试条件   |
|----------------------|-----------|------|-----|-----|------|--|
| I <sub>DRM</sub>     | 重复峰值断态电流  |      |     | 2.0 | mA   | V <sub>D</sub> =V <sub>DRM</sub> , 单相, 半波, T <sub>J</sub> =125 |
| V <sub>TM</sub>      | 峰值通态电压    |      |     | 1.4 | V    | I <sub>T</sub> =12A, 快速测量                                      |
| I <sub>+GT1</sub>    | 门极触发电流( ) |      |     | 30  | mA   | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| I <sub>-GT1</sub>    | 门极触发电流( ) |      |     | 30  | mA   | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| I <sub>-GT3</sub>    | 门极触发电流( ) |      |     | 30  | mA   | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| V <sub>+GT1</sub>    | 门极触发电压( ) |      |     | 1.5 | V    | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| V <sub>-GT1</sub>    | 门极触发电压( ) |      |     | 1.5 | V    | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| V <sub>-GT3</sub>    | 门极触发电压( ) |      |     | 1.5 | V    | V <sub>D</sub> =6V, R <sub>L</sub> =10 ohm                     |
| V <sub>GD</sub>      | 不触发门极电压   | 0.2  |     |     | V    | T <sub>J</sub> =125, V <sub>D</sub> =1/2V <sub>DRM</sub>       |
| (dv/dt) <sub>c</sub> | 断态电压临界上升率 | 10.0 |     |     | V/μS | T <sub>J</sub> =125, V <sub>D</sub> =2/3V <sub>DRM</sub>       |
| R <sub>th(j-c)</sub> | 热阻        |      |     | 2.0 | /W   | (di/dt) <sub>c</sub> =-4.0A/ms<br>结到外壳                         |
| I <sub>H</sub>       | 维持电流      |      | 15  |     | mA   |  |

特性曲线

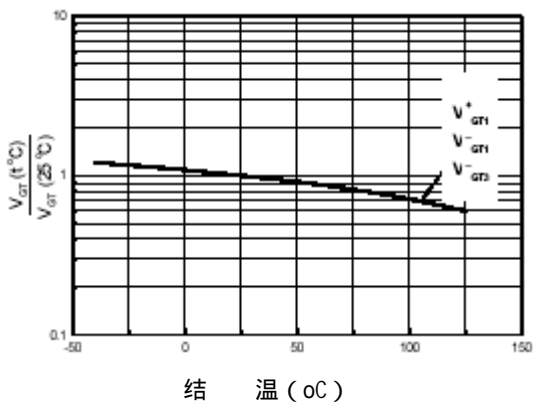
图一、门极特性



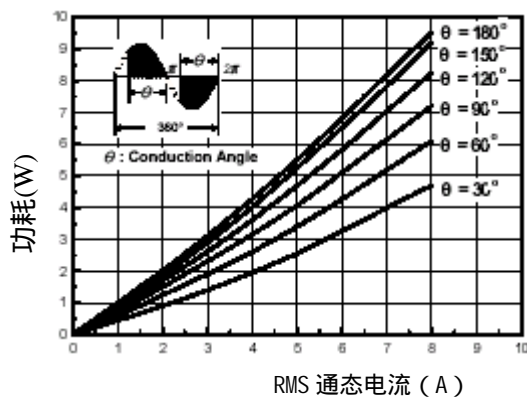
图二、通态电压



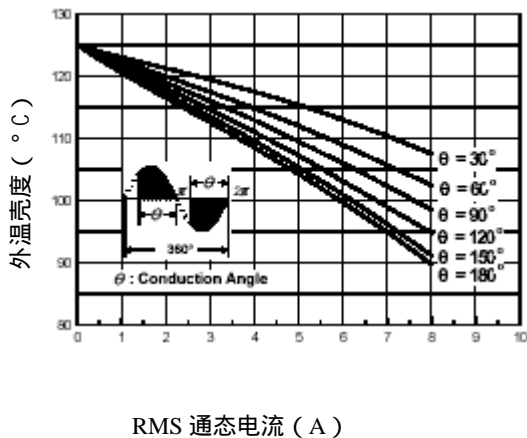
图三、门极触发电压-----结温



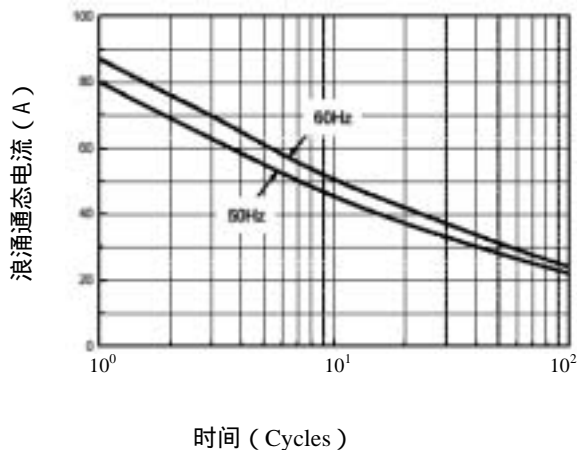
图四、通态电流---最大功耗



图五、通态电流---外壳温度

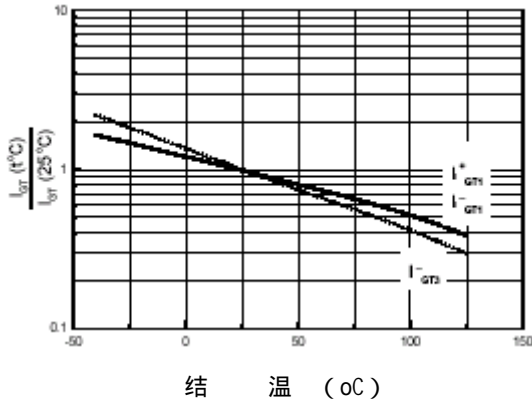


图六、浪涌通态最大电流（不重复）

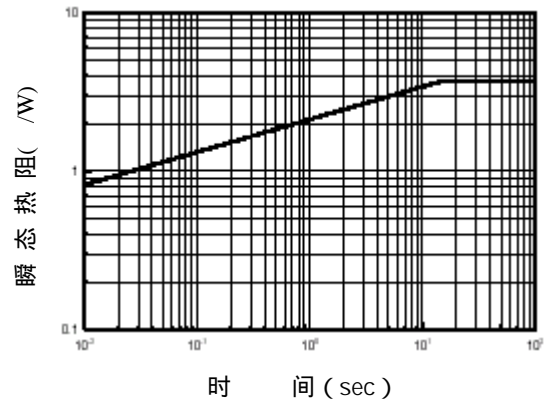


**特性曲线**

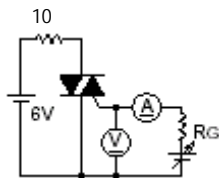
图七、门极触发电流----结温



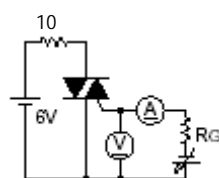
图八、瞬态热阻



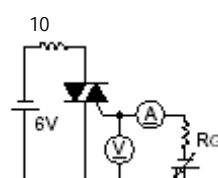
图九、门极触发特性测试电路



测试方式



测试方式



测试方式