



ELECTRICAL CHARACTERISTICS (T<sub>j</sub>=25 unless otherwise specified)

| Symbol               | Test Condition   | Quadrant | Value |     | Unit |
|----------------------|--|----------|-------|-----|------|
| I <sub>GT</sub>      | V <sub>D</sub> =12V R <sub>L</sub> =33                                       | - -      | MAX.  | 5   | mA   |
|                      |  |          |       | 10  |      |
| V <sub>GT</sub>      |  | ALL      | MAX.  | 1   | V    |
| V <sub>GD</sub>      | V <sub>D</sub> =V <sub>DRM</sub> T <sub>j</sub> =125<br>R <sub>L</sub> =3.3k | ALL      | MIN.  | 0.2 | V    |
| I <sub>L</sub>       | I <sub>G</sub> =1.2I <sub>GT</sub>   | -        | MAX.  | 15  | mA   |
|                      |  | -        |       | 25  |      |
| I <sub>SM</sub>      | I <sub>G</sub> =1.2I <sub>GT</sub>   |          | MAX.  | 15  | mA   |
| (dv/dt) <sub>c</sub> | V <sub>D</sub> =540V Gate Open T <sub>j</sub> =110                           |          | MIN.  | 100 | V/μs |
| (di/dt) <sub>c</sub> | (di/dt) <sub>c</sub> =1.8A/ms, T <sub>j</sub> =110                           |          | MIN.  | 2.5 | V/μs |
| t <sub>on</sub>      | I <sub>G</sub> =20mA I <sub>A</sub> =200mA I <sub>R</sub> =20mA              |          | TYP.  | 1   | μs   |
| t <sub>off</sub>     | T <sub>j</sub> =25   |          |       | 12  |      |

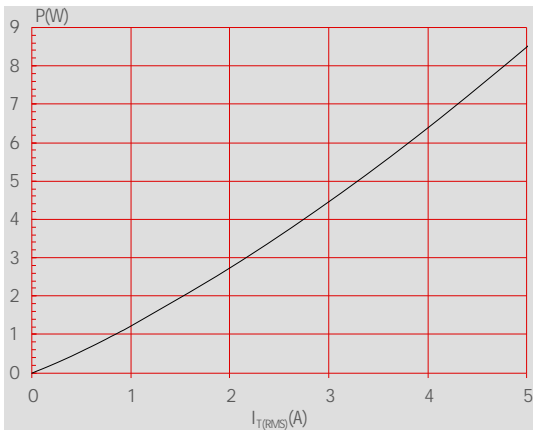
STATIC CHARACTERISTICS

| Symbol            | Parameter  |                     | Value(MAX.) | Unit |
|-------------------|--|---------------------|-------------|------|
| V <sub>TM</sub>   | I <sub>TM</sub> =5A t <sub>p</sub> =380μs                          | T <sub>j</sub> =25  | 1.7         | V    |
| V <sub>TO</sub>   | Threshold voltage  | T <sub>j</sub> =125 | 0.94        | V    |
| R <sub>D</sub>    | Dynamic resistance   | T <sub>j</sub> =125 | 124         | m    |
| I <sub>DRM</sub>  | V <sub>D</sub> =V <sub>DRM</sub> V <sub>R</sub> =V <sub>R</sub> RM | T <sub>j</sub> =25  | 5           | μA   |
| I <sub>R</sub> RM |  | T <sub>j</sub> =125 | 0.4         | m    |

ORDERING INFORMATION

J ST 136 H -800 D T

**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.2:** RMS on-state current versus case temperature

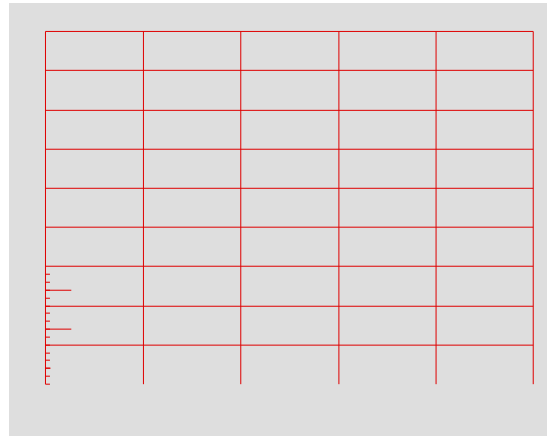
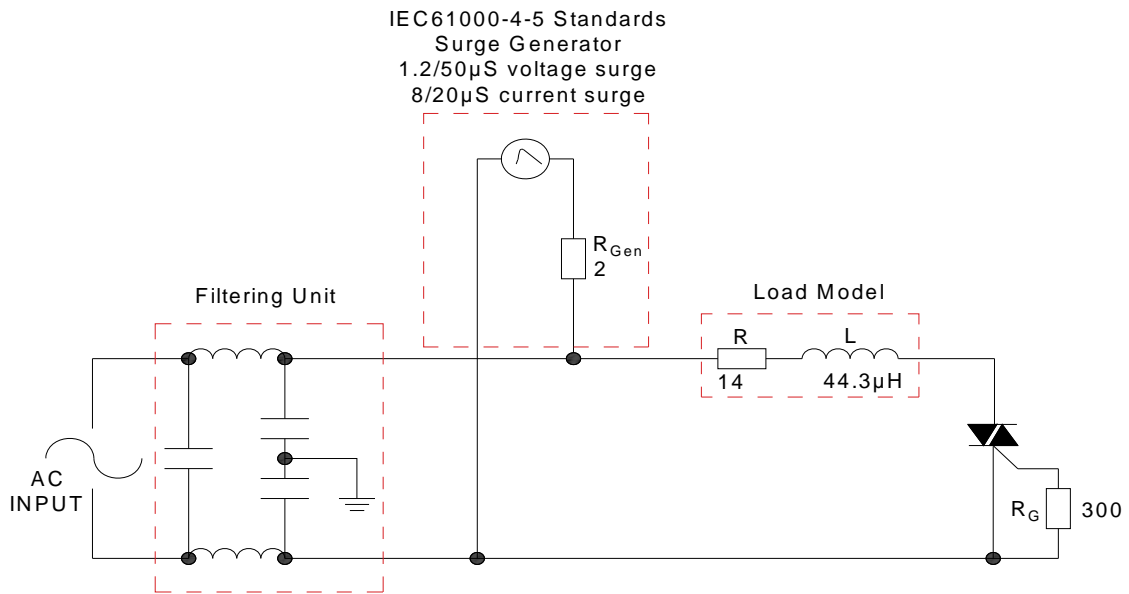


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



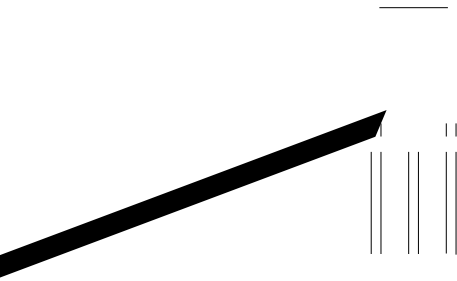
## LEAD FORMING AND SOLDERING

Refer to the application note “Assembly Instructions for Thyristors in Through-hole Package” released by JieJie Microelectronics

**ORDERING INFORMATION**

| Order code   | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(mA) |    | Package | Base qty.<br>(pcs) | Delivery mode |
|--------------|---|---------|----|---------|--------------------|---------------|
|              |   | -       | -  |         |                    |               |
| JST136H-800D | 800   | 5       | 10 | TO-251  | 80                 | Tu            |

| Date | Revision | Changes |
|------|----------|---------|
|      |          |         |



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