| | | | |
|---|---|---|---|
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 3.5 | kV |

## ELECTRICAL CHARACTERISTICS ($T_j$=25 unless otherwise specified)

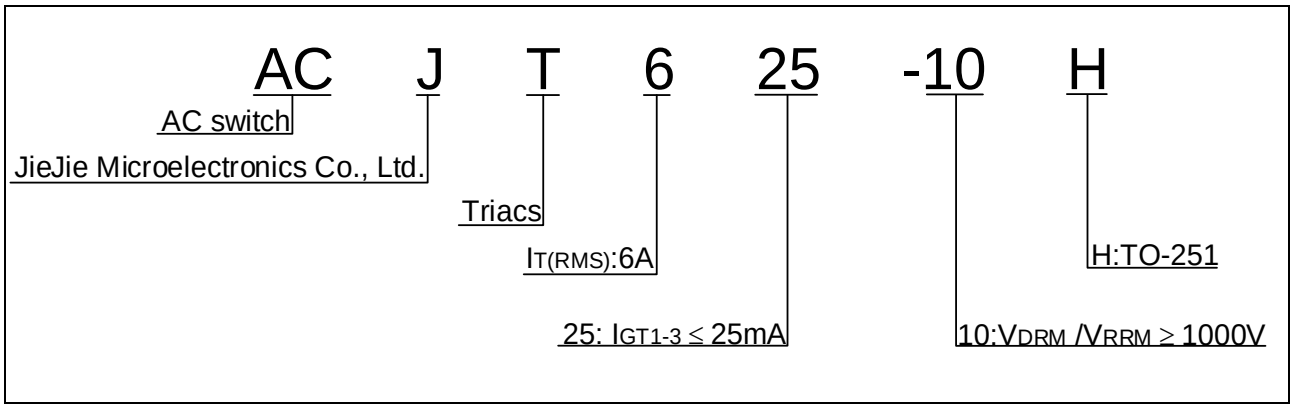
| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33Ω | - - | MAX. | 25 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =125 $R_L$ =3.3kΩ | - - | MIN. | 0.2 | V |
| $I_L$ | $I_G$ =1.2$I_{GT}$ | - | MAX. | 40 | mA |
| | | | | 60 | |
| $I_H$ | $I_T$ =100mA | | MAX. | 40 | mA |
| dV/dt | $V_D$=670V Gate Open $T_j$ =125 | | MIN. | 1500 | V/μs |
| (dI/dt)c | (dV/dt)c=20V/μs, $T_j$=125 | | MIN. | 8 | A/ms |
| $t_{on}$ | $I_G$=40mA $I_A$=200mA $I_R$=20mA $T_j$=25 | | TYP. | 5 | μs |
| $t_{off}$ | | | | 70 | |
| $V_{CL}$ | $I_{CL}$=0.1mA $t_p$=1ms | | MIN. | 1050 | V |

## STATIC CHARACTERISTICS

| Symbol | Parameter | | Value(MAX.) | Unit |
|---|---|---|---|---|
| $V_{TM}$ | $I_{TM}$ =8.5A $t_p$=380μs | $T_j$=25 | 1.5 | V |
| $V_{TO}$ | Threshold voltage | $T_j$=125 | 0.82 | V |
| $R_D$ | Dynamic resistance | $T_j$=125 | 64 | mΩ |
| $I_{DRM}$ | $V_D$ =$V_{DRM}$ $V_R$ =$V_{RRM}$ | $T_j$=25 | 8 | μA |
| $I_{RRM}$ | | $T_j$=125 | 0.5 | mA |

## THERMAL T s b i T @ H

## ORDERING INFORMATION




## MARKING

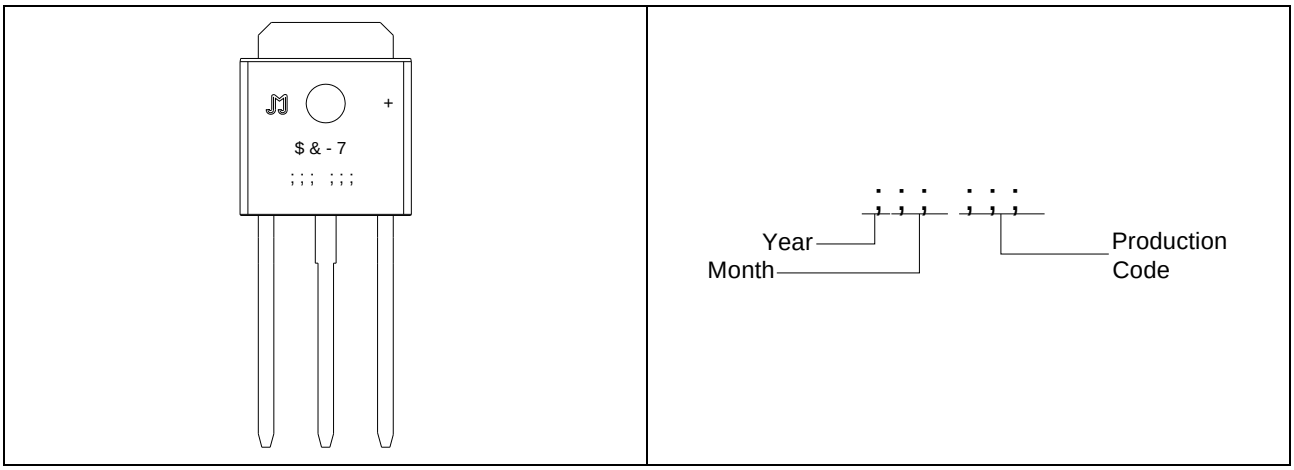


**FIG.1:** Maximum power dissipation versus RMS on-state current

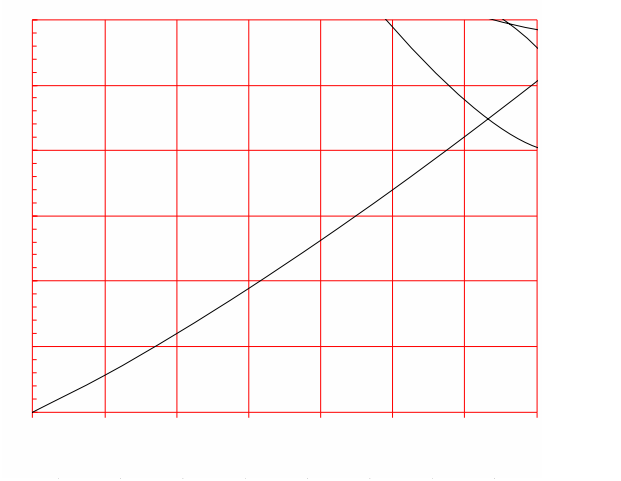
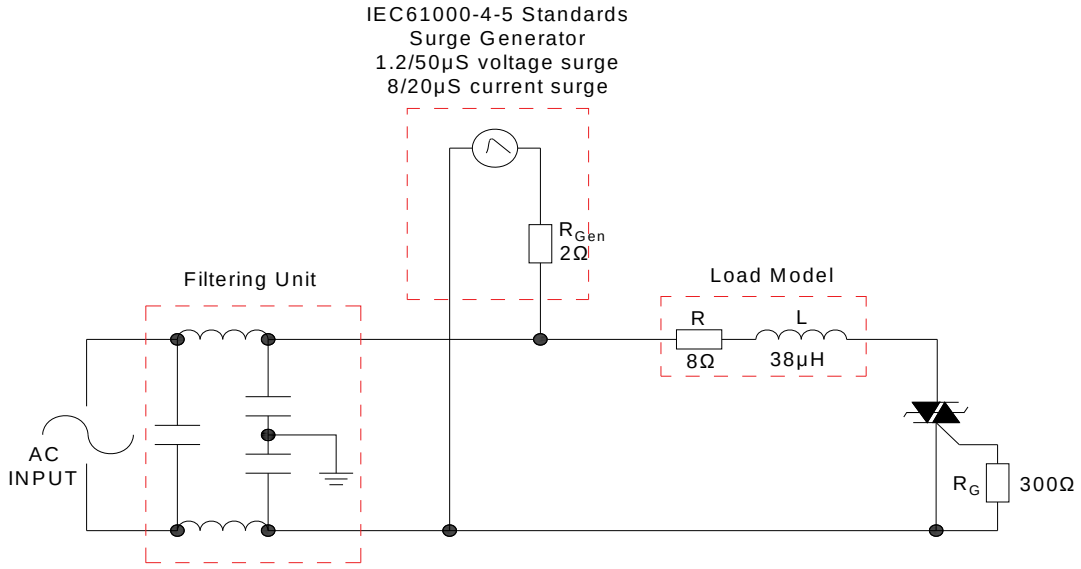


**FIG.2:** RMS on-state current versus case temperature

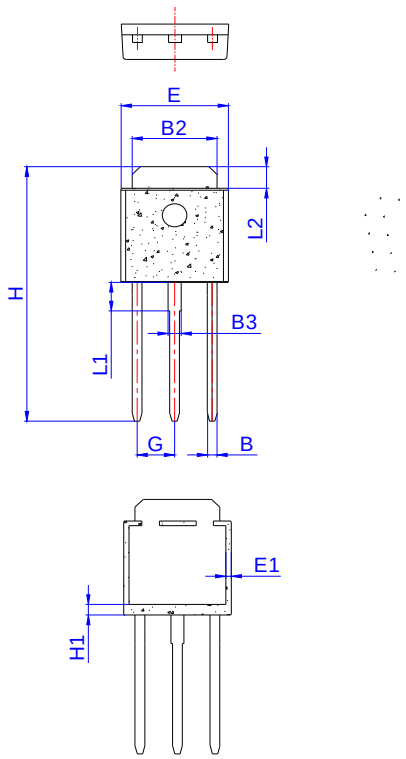
FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards




## LEAD FORMING AND SOLDERING

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

## PACKAGE MECHANICAL DATA




| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 2.20 | | 2.40 | 0.086 | | 0.095 |
| A2 | 1.00 | | 1.30 | 0.039 | | 0.051 |
| B | 0.50 | | 0.70 | 0.020 | | 0.028 |
| B2 | 5.10 | | 5.40 | 0.200 | | 0.213 |
| B3 | | | | | | |
| C | | | | | | |
| C2 | | | | | | |
| D | | | | | | |
| E | | | | | | |
| E1 | 0.60 | | 1.00 | 0.024 | | 0.039 |
| | | | | | | |
| G | | | | | | |
| H | 16.00 | | 17.00 | 0.630 | | 0.669 |
| H1 | 1.45 | | 1.85 | 0.057 | | 0.073 |
| L1 | | | | | | |
| | | | | | | |

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