



|                                                                      |          |     |    |
|----------------------------------------------------------------------|----------|-----|----|
| Peak pulse voltage<br>( $T_j=25$ ; 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       |
|-------------|-----------------------------------------------|----------|-------|-----|------------|
| $I_{GT}$    | $V_D=12V$ $R_L=33\Omega$                      | - -      | MAX.  | 10  | mA         |
| $V_{GT}$    |                                               | - -      | MAX.  | 1   | V          |
| $V_{GD}$    | $V_D=V_{DRM}$ $T_j=125$<br>$R_L=3.3k\Omega$   | - -      | MIN.  | 0.2 | V          |
| $I_L$       | $I_G=1.2I_{GT}$                               | -        | MAX.  | 20  | mA         |
|             |                                               |          |       | 30  |            |
| $I_H$       | $I_T=100mA$                                   |          | MAX.  | 20  | mA         |
| $dV/dt$     | $V_D=400V$ Gate Open $T_j=125$                |          | MIN.  | 800 | V/ $\mu s$ |
| $(dI/dt)_c$ | $(dV/dt)_c=10V/\mu s$ , $T_j=125$             |          | MIN.  | 1.2 | A/ms       |
| $t_{on}$    | $I_G=20mA$ $I_A=200mA$ $I_R=20mA$<br>$T_j=25$ |          | TYP.  | 2.5 | $\mu s$    |
| $t_{off}$   |                                               |          |       | 25  |            |
| $V_{CL}$    | $I_{CL}=0.1mA$ $t_p=1ms$                      |          | MIN.  | 700 | V          |

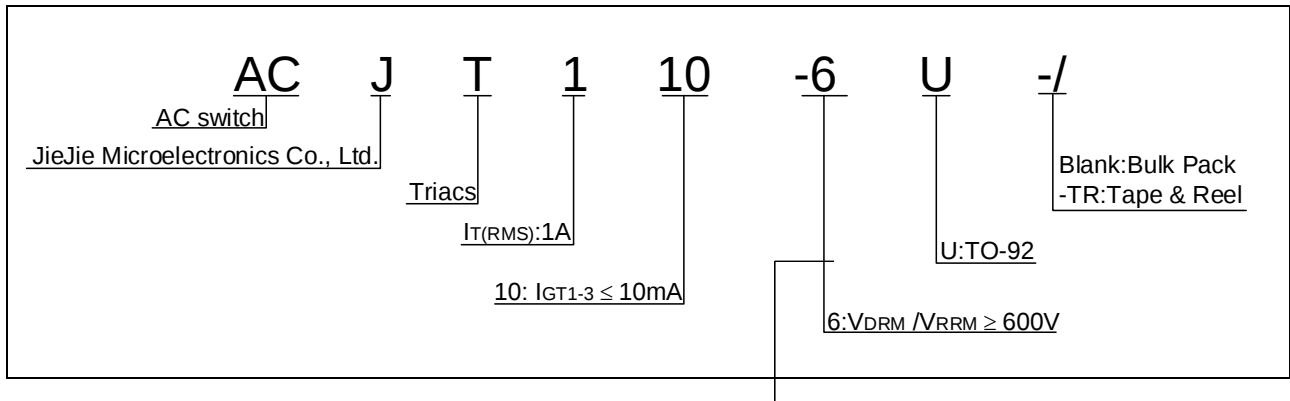
**STATIC CHARACTERISTICS**

| Symbol    | Parameter                    |           | Value(MAX.) | Unit      |
|-----------|------------------------------|-----------|-------------|-----------|
| $V_{TM}$  | $I_{TM}=1.1A$ $t_p=380\mu s$ | $T_j=25$  | 1.4         | V         |
| $V_{TO}$  | Threshold voltage            | $T_j=125$ | 0.8         | V         |
| $R_D$     | Dynamic resistance           | $T_j=125$ | 287         | $m\Omega$ |
| $I_{DRM}$ | $V_D=V_{DRM}$ $V_R=V_{RRM}$  | $T_j=25$  | 5           | $\mu A$   |
| $I_{RRM}$ |                              | $T_j=125$ | 0.15        | mA        |

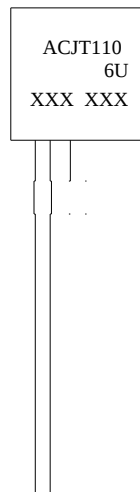
**THERMAL RESISTANCES**

| Symbol        | Parameter                | Value | Unit |
|---------------|--------------------------|-------|------|
| $R_{th(j-c)}$ | junction to case (AC)    | 60    | /W   |
| $R_{th(j-a)}$ | junction to ambient (AC) | 150   | /W   |

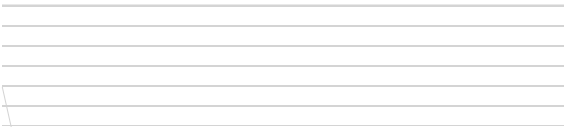
## ORDERING INFORMATION



## MARKING



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



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





ORDERING INFORMATION

| Order code | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(mA) | Package | Base qty.<br>(pcs) | Delivery<br>mode |
|------------|---------------------------------------------------|---------|---------|--------------------|------------------|
|------------|---------------------------------------------------|---------|---------|--------------------|------------------|

ACJT110-6U

600



DELIVERY MODE

| PACKAGE | OUTLINE   | BAG<br>(PCS) | INNER BOX<br>(PCS) | CARTON BOX<br>(PCS) |
|---------|-----------|--------------|--------------------|---------------------|
| TO-92   | Bulk Pack | 1,000        | 10,000             | 50,000              |

|    |       |       |       |
|----|-------|-------|-------|
| W1 | 8.50  | 9.00  | 9.50  |
| W2 |       |       | 1.00  |
| D0 | 3.80  | 4.00  | 4.20  |
| H  | -1.00 | 0     | 1.00  |
| L1 | 2.50  |       |       |
| H  | 18.00 | 19.00 | 20.00 |

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