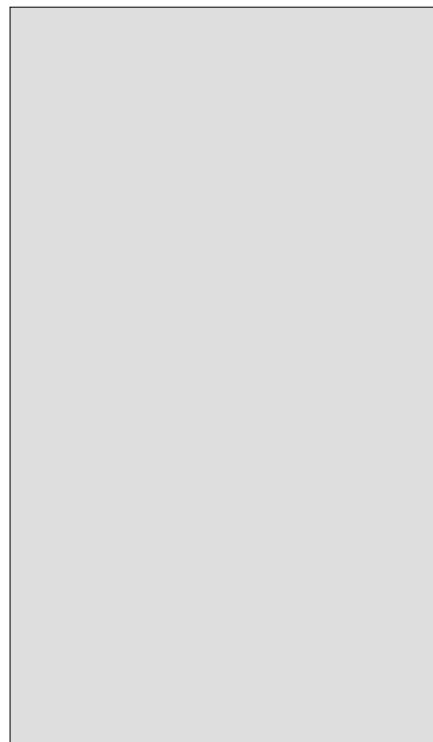




## ACJT02U-1000SW 2A TRIAC

Rev.A.2.1

The ACJT02U-1000SW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in applications such as heating regulation, induction motor starting circuits, for phase control operation in light dimmers, motor speed controllers. The ACJT02U-1000SW embeds a TVS structure to absorb the inductive turn-off energy such as those described in the IEC 61000-4-5 standards. Package TO-92 is RoHS compliant.

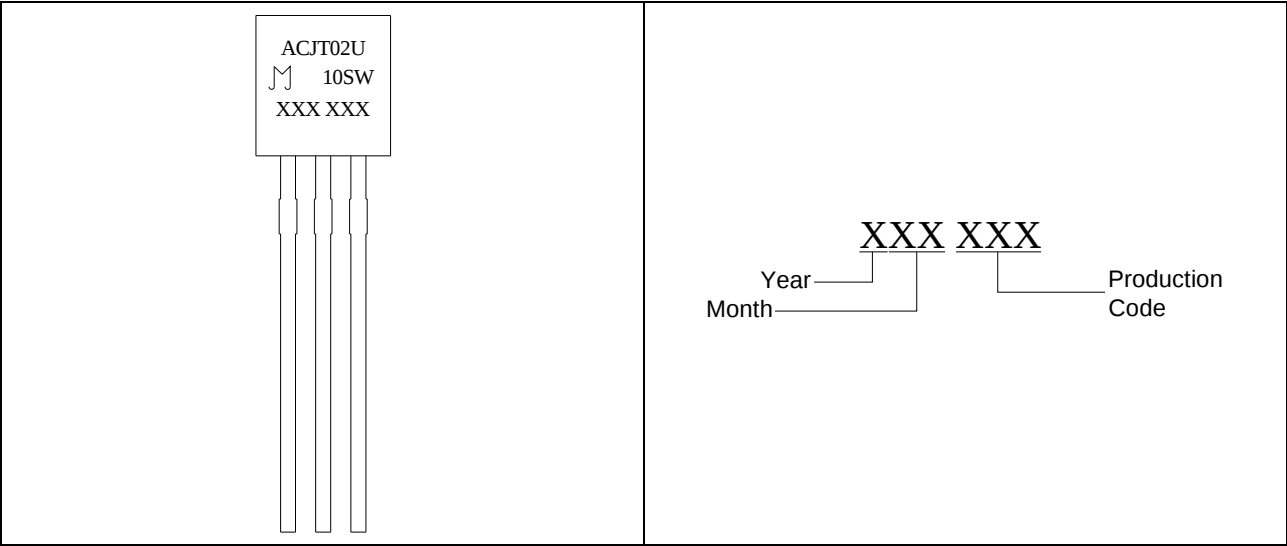
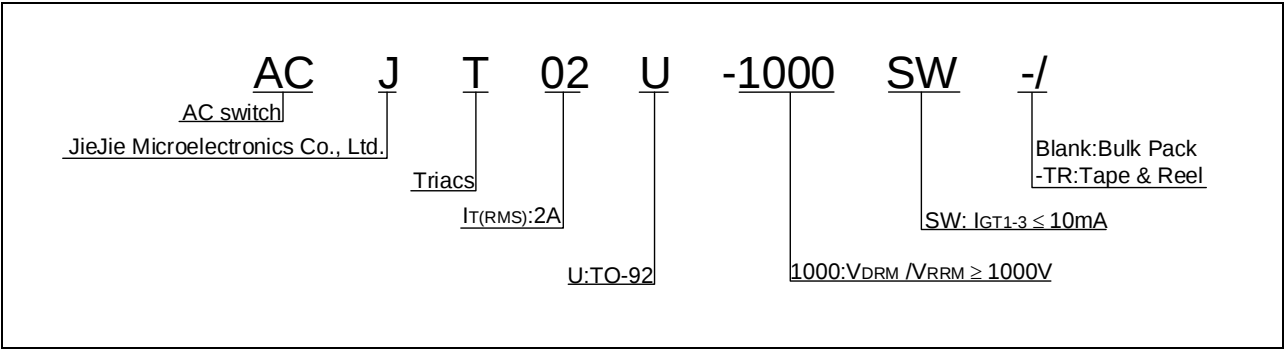


| Parameter                            | Symbol    | Value   | Unit |
|--------------------------------------|-----------|---------|------|
| Storage junction temperature range   | $T_{stg}$ | -40-150 |      |
| Operating junction temperature range | $T_j$     | -40-125 |      |

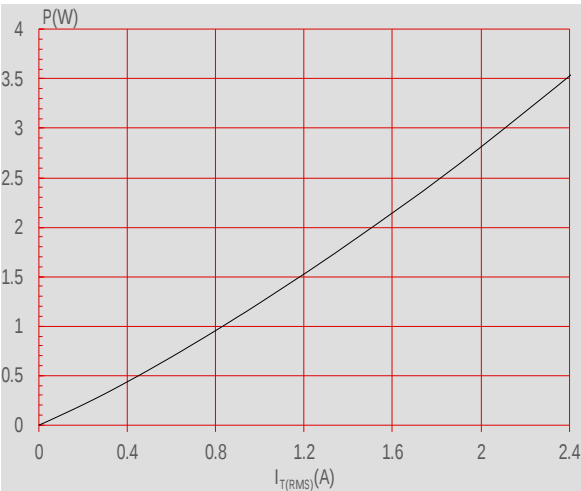
Repetitive peak off-state voltage ( $T_j=25^\circ\text{C}$ )  $V_{\text{RMS}}$   $\phi$  25)  $\text{V}_\text{A}$



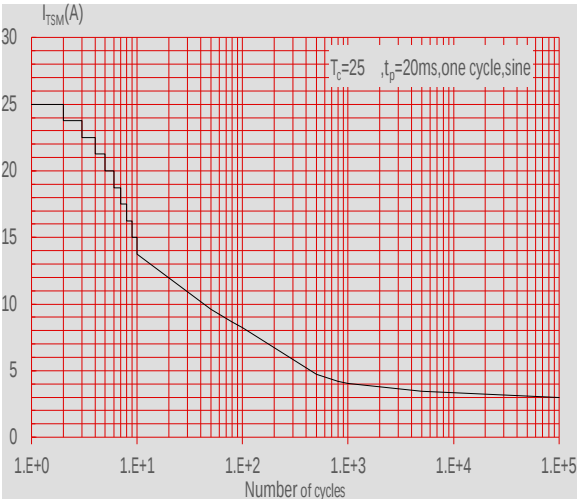
Peak pulse voltage  
( $T_j=25$



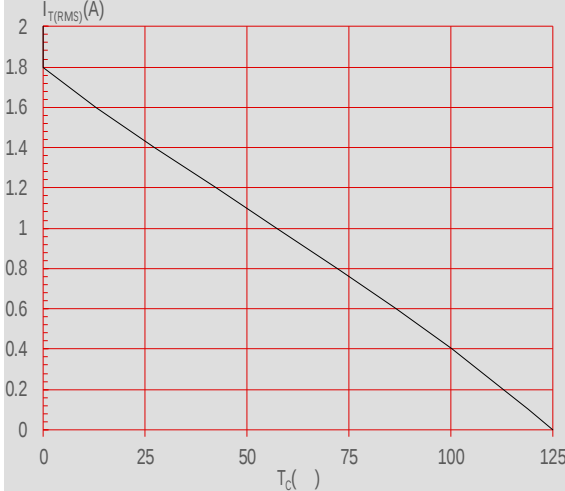
**FIG.1:** Maximum power dissipation versus RMS on-state current



**FIG.3:** Surge peak on-state current versus number of cycles

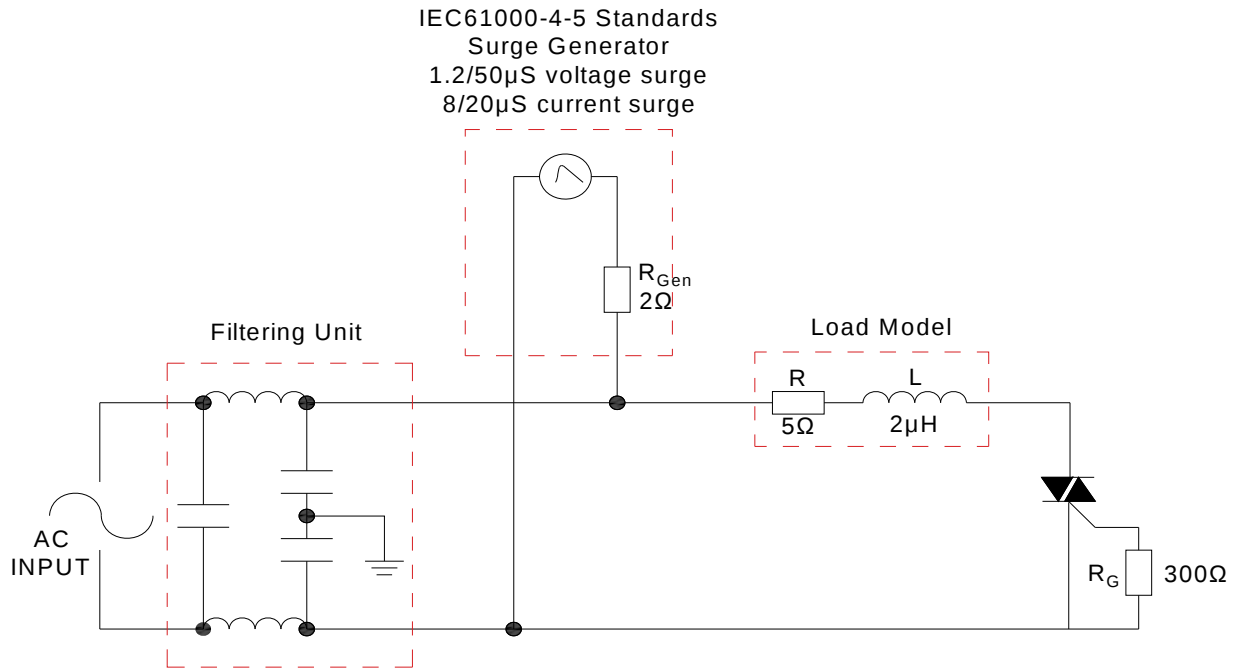


**FIG.2:** RMS on-state current versus case temperature

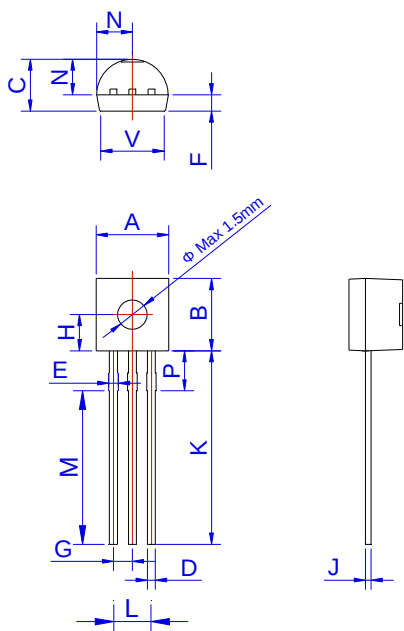


**FIG.4:** On-state characteristics

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







| Ref. | Dimensions  |      |       |        |      |       |
|------|-------------|------|-------|--------|------|-------|
|      | Millimeters |      |       | Inches |      |       |
|      | Min.        | Typ. | Max.  | Min.   | Typ. | Max.  |
| A    | 4.45        |      | 5.20  | 0.175  |      | 0.205 |
| B    | 4.32        |      | 5.33  | 0.170  |      | 0.210 |
| C    | 3.18        |      | 4.19  | 0.125  |      | 0.165 |
| D    | 0.407       |      | 0.533 | 0.016  |      | 0.021 |
| E    | 0.50        |      | 0.70  | 0.020  |      | 0.028 |
| F    | 1.10        |      | 1.30  | 0.043  |      | 0.051 |
| G    | 1.10        |      | 1.40  | 0.043  |      | 0.055 |
| H    | 2.20        |      | 2.40  | 0.087  |      | 0.094 |
| J    | 0.36        |      | 0.50  | 0.014  |      | 0.020 |
| K    | 12.70       |      | 15.0  | 0.500  |      | 0.591 |
| L    |             |      |       |        |      |       |
| M    |             |      |       |        |      |       |
| N    | 2.04        |      | 2.66  | 0.080  |      | 0.105 |
| P    | 1.80        |      | 2.30  | 0.071  |      | 0.091 |
| V    | 4.10        |      | 4.50  | 0.161  |      | 0.177 |





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