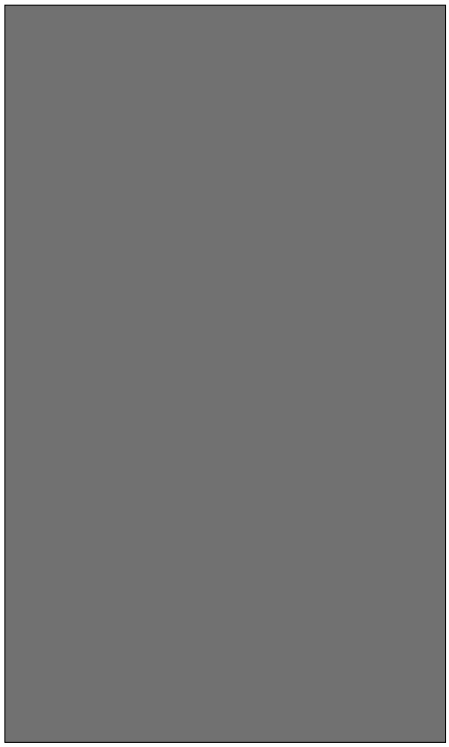
# ACJT01U-800SW 1A TRIAC

Rev.A.2.1

## DESCRIPTION:

The ACJT01U-800SW 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 ACJT01U-800SW 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.



## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

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

| | | | |
|---|---|---|---|
| Peak pulse voltage<br>($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 3.75 | kV |

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

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33Ω | - - | MAX. | 10 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =125<br>$R_L$ =3.3kΩ | - - | MIN. | 0.2 | V |
| $I_L$ | $I_G$ =1.2$I_{GT}$ | - | MAX. | 20 | mA |
| | | | | 30 | |
| $I_H$ | $I_T$ =100mA | | MAX. | 20 | mA |
| dV/dt | $V_D$=540V Gate Open $T_j$ =125 | | MIN. | 800 | V/μs |
| (dI/dt)c | (dV/dt)c=10V/μs, $T_j$=125 | | MIN. | 1.3 | A/ms |
| $t_{on}$ | $I_G$=20mA $I_A$=200mA $I_R$=20mA<br>$T_j$=25 | | | | |

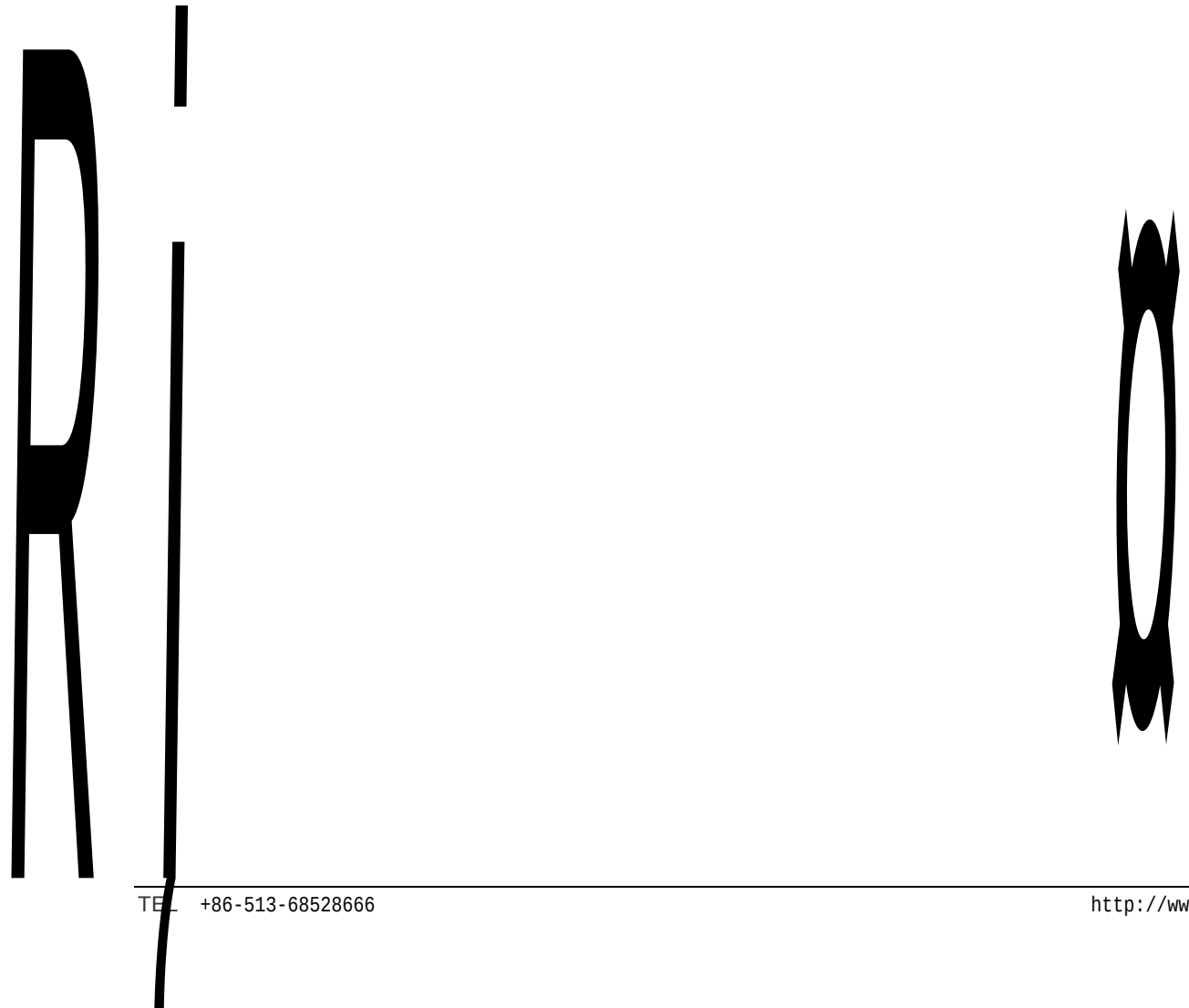
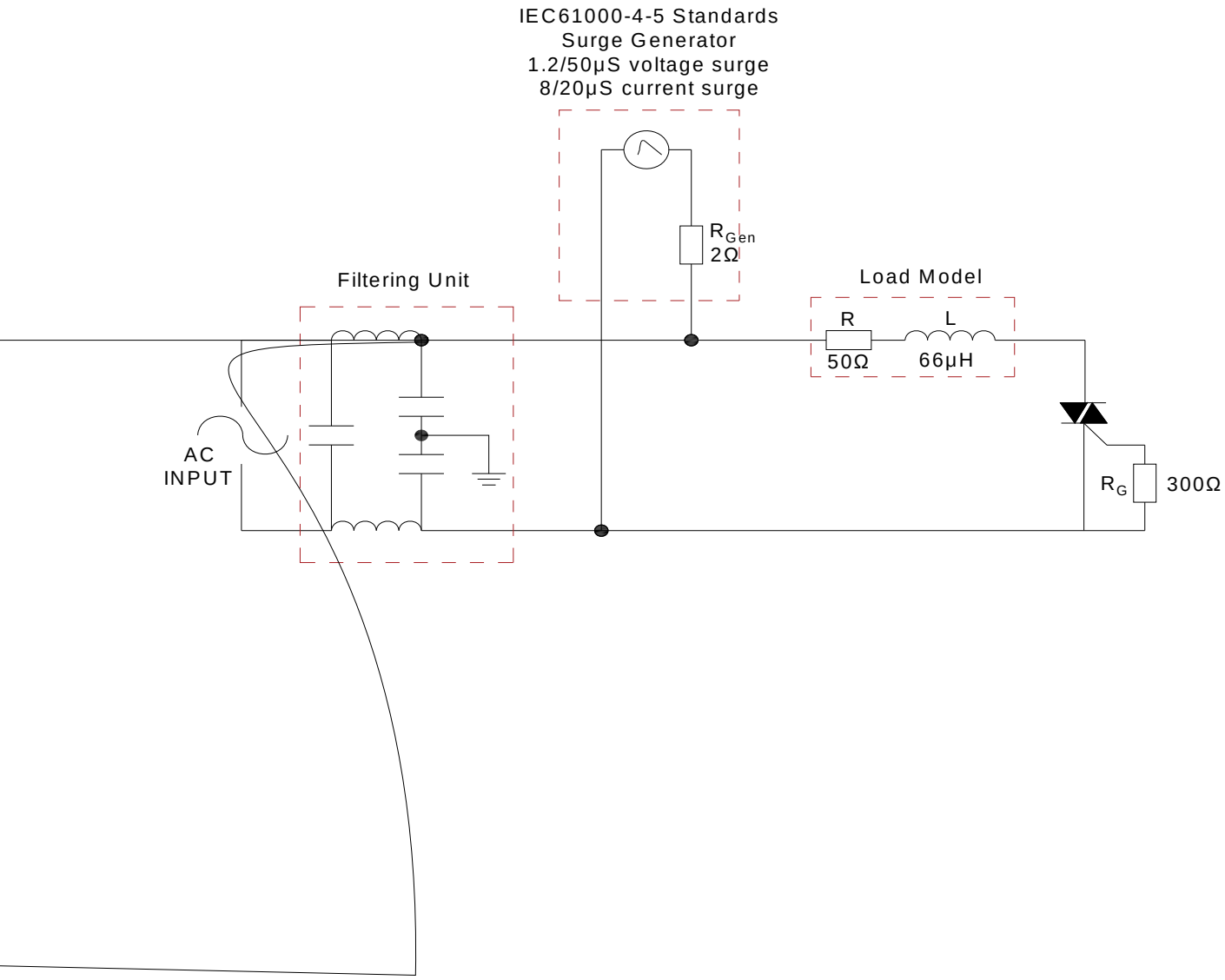


FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards



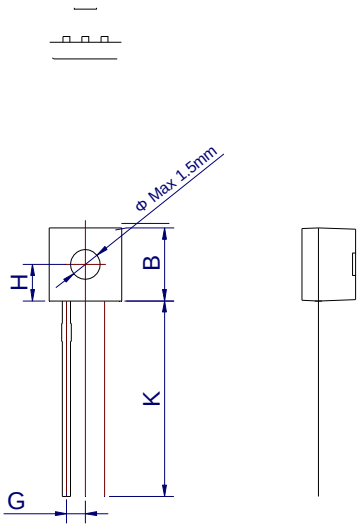
## ORDERING INFORMATION

| Order code | Voltage $V_{DRM}/V_{RRM}$ (V) | IGT(mA) | Package | Base qty. (pcs) | Delivery mode |
|---|---|---|---|---|---|
| ACJT01U-800SW | 800 | 10 | TO-92 | 1,000 | Bulk Pack |
| ACJT01U-800SW-TR | | | | 2,000 | Tape & Reel |

### Document Revision History

| Date | Revision | Changes |
|---|---|---|
| Apr.13, 2023 | A.1.0 | Last updated |
| Mar.27, 2025 | A.2.0 | Renew PACKAGE MECHANICAL DATA |
| Sept.28, 2025 | A.2.1 | Revise PACKAGE MECHANICAL DATA |

## PACKAGE MECHANICAL DATA



## DELIVERY MODE

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

H 18.00 19.00 20.00

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences

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