# JST41T-600B 40A TRIAC

Rev.A.1.0

## DESCRIPTION:

The JST41T-600B 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. By using a DBC, JST41T-600B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906).Package TG-C is RoHS compliant.

## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

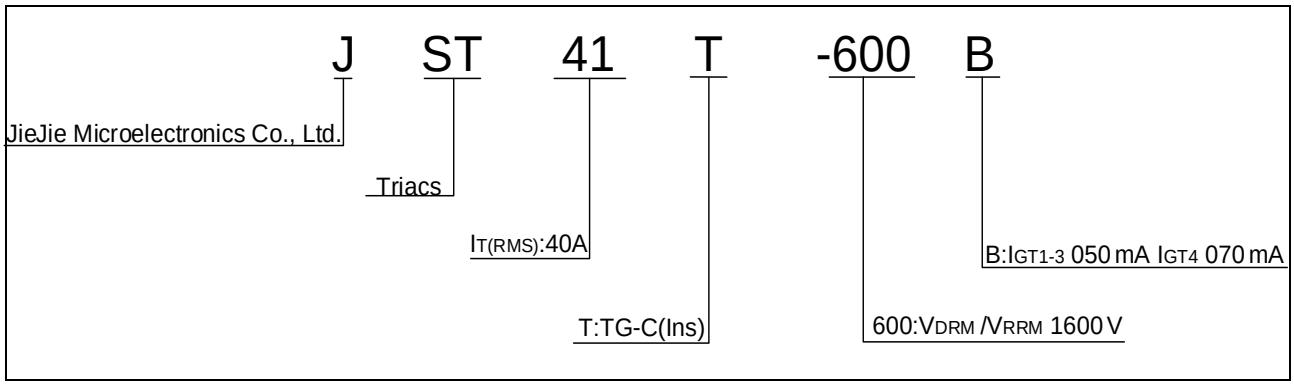
| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Storage junction temperature range | $T_{stg}$ | -40-150 | |
| Operating junction temperature range | | | |

| | | | |
|---|---|---|---|
| Peak pulse voltage<br>($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 0.9 | kV |

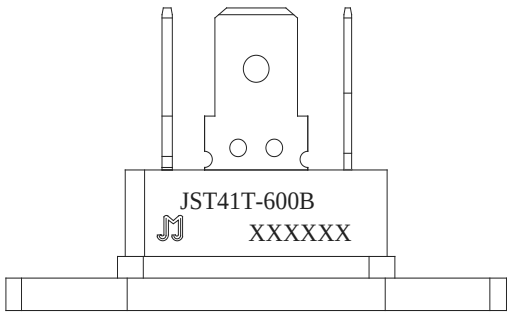
## ELECTRICAL CHARACTERISTICS ($T_j$=25 unless otherwise specified)

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$=12V $R_L$=33 | - - | MAX. | 50 | mA |
| | | | | 70 | |
| $V_{GT}$ | | ALL | MAX. | 1.3 | V |
| $V_{GD}$ | $V_D$=$V_{DRM}$ $T_j$=125<br>$R_L$=3.3k | ALL | MIN. | 0.2 | V .#^ ó €H Žô` |

## ORDERING INFORMATION




## MARKING



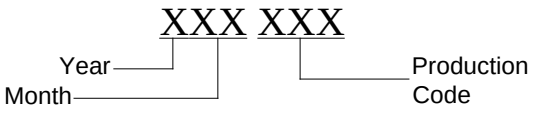



FIG.1: Maximum power dissipation versus RMS on-state current

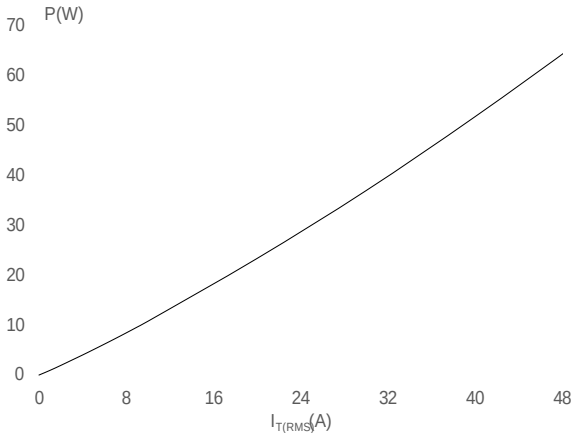



FIG.2: RMS on-state current versus case temperature

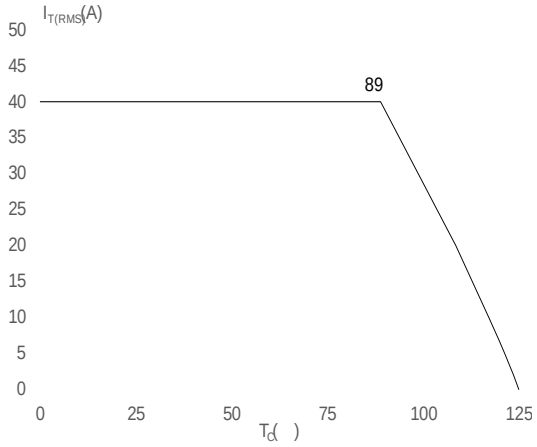
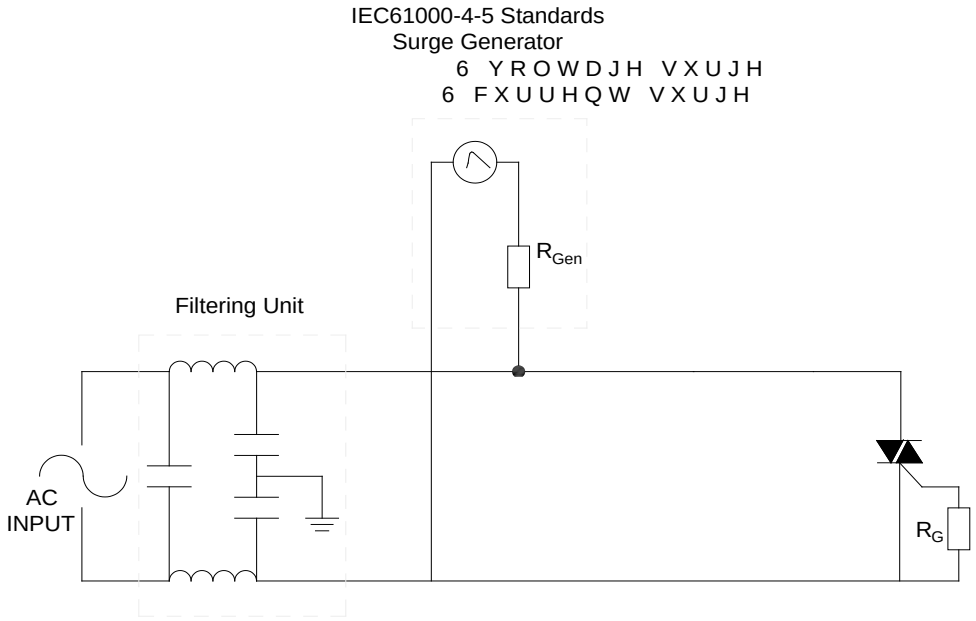



FIG.3: Surge peak on-state current versus number of cycles

FIG.4: On-state characteristics

FIG.7 ÖTest 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 |
|---|---|---|---|---|---|---|
| | | - - | | | | |
| JST41T-600B | 600 | 50 | 70 | TG-C(Ins) | 10 | Tube |

Document Revision History

| Date | Revision | Changes |
|---|---|---|
| Apr.14, 2023 | A.1.0 | Last updated |

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