# JST12C-600TW 12A TRIAC

Rev.A.1.1

## DESCRIPTION:

The JST12C-600TW 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. JST12C-600TW snubberless triac is especially recommended for use on inductive loads. It can be driven directly through the MCU I/O port. From T2 terminals to external heatsink. Package TO-220C is RoHS compliant.

## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

**Parameter -**

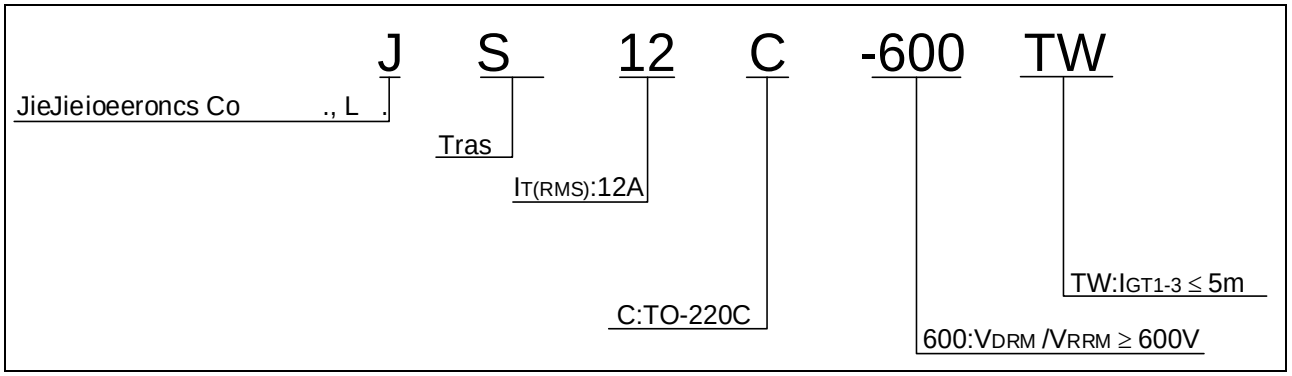
| | | | |
|---|---|---|---|
| Peak pulse voltage<br>($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 3.5 | kV |

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

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33 | - - | MAX. | 5 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =125<br>$R_L$ =3.3k | - - | MIN. | 0.2 | V |

$I_L$ $I_G$

## ORDING INFORMATION




## MARKING

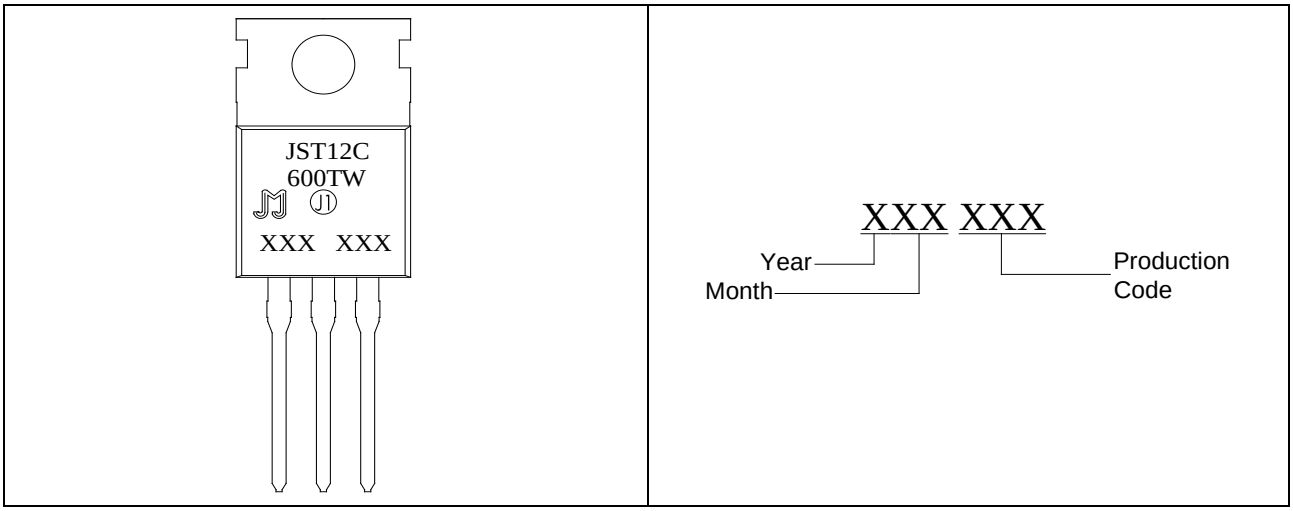


**FIG.1:** Maximum power dissipation versus RMS on-state current

**FIG.2:** RMS

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

