# JST12C-600CW 12A TRIAC

Rev.A.1.1

## DESCRIPTION:

The JST12C-600CW triac is suitable for general purpose AC

| | | | |
|---|---|---|---|
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.7) | $V_{pp}$ | 4.5 | kV |

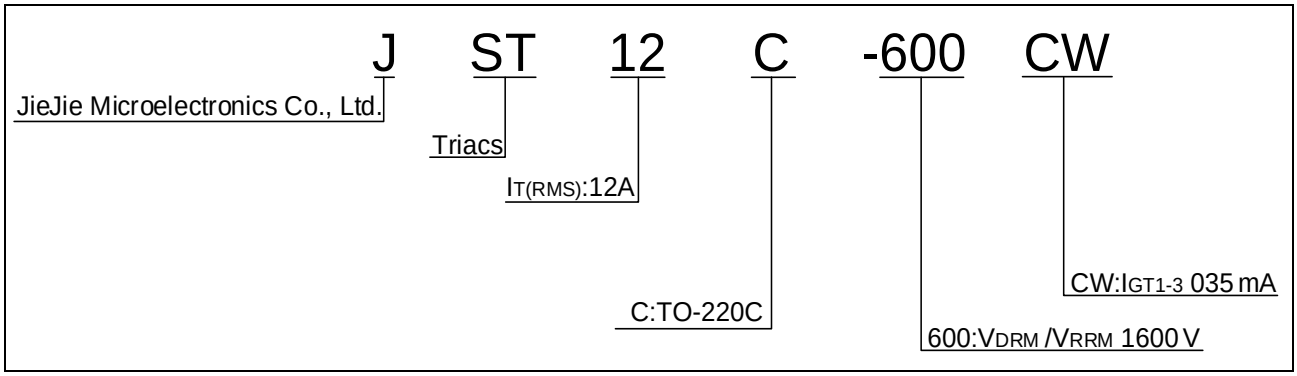
## ELECTRICAL CHARACTERISTICS ($T_j$=25 unless otherwise specified)

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33 | - - | MAX. | 35 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =125 $R_L$ =3.3k | - - | MIN. | 0.2 | V |
| $I_L$ | $I_G$ =1.2$I_{GT}$ | - | MAX. | 50 | mA |
| | | | | 60 | |
| $I_H$ | $I_T$ =500mA | | MAX. | 35 | mA |
| dV/dt | $V_D$=400V Gate Open $T_j$ =125 | | MIN. | 1000 | V s |
| (dI/dt)c | G 9 G W F j=9125 V 7 | | MIN. | 10 | A/ms |
| $t_{on}$ | $I_G$=40mA $I_A$=200mA $I_R$=20mA $T_j$=25 | | TYP. | 3 | s |
| $t_{off}$ | | | | 30 | |

## STATIC CHARACTERISTICS

Symbol

## ORDERING INFORMATION




## MARKING

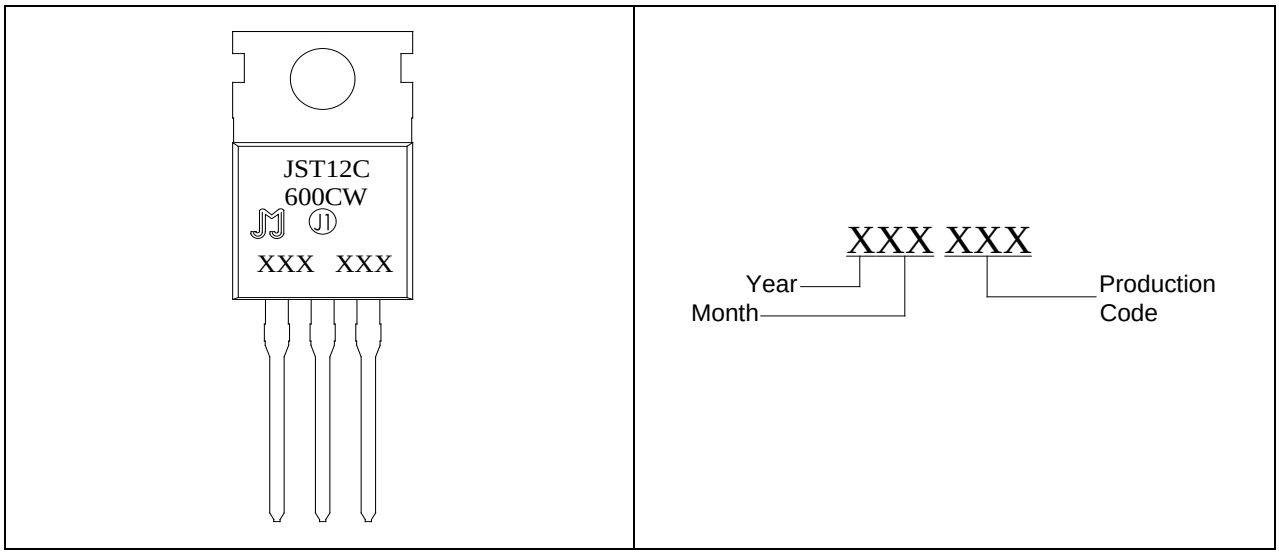


FIG.1: Maximum power dissipation versus RMS on-state current

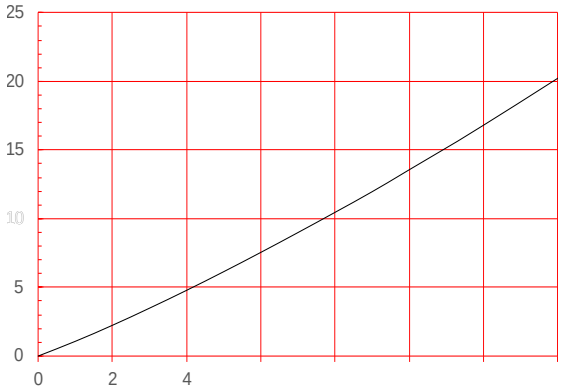



FIG.2: RMS on-state current versus case temperature

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