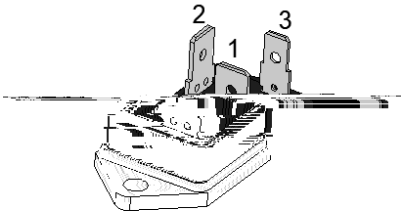
## JST25T-600B 25A TRIAC

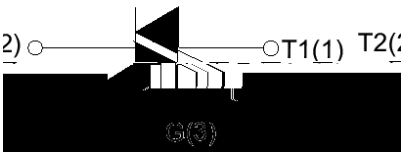
Rev.A.1.0

## DESCRIPTION:

The JST25T-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, JST25T-600B provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). PackageTG-C is RoHS compliant.




TG-C




## MAIN FEATURES

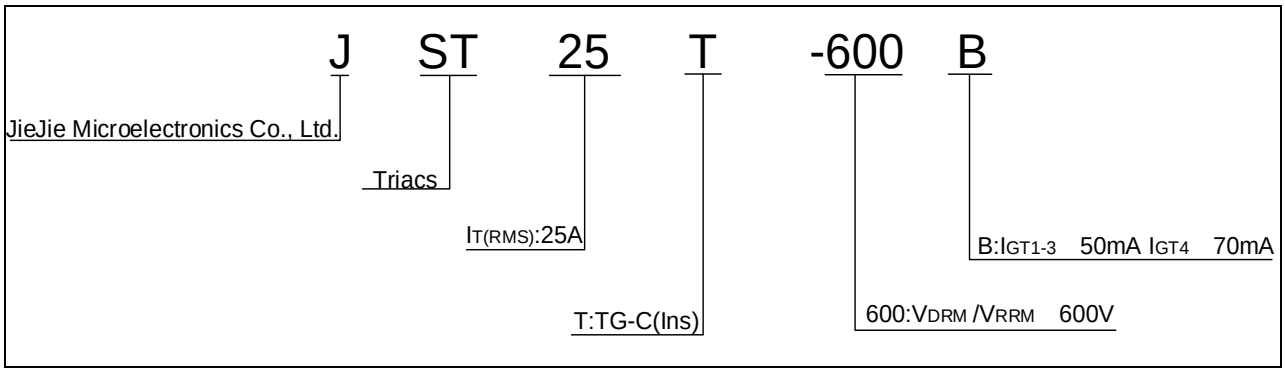
| Symbol | Value | Unit |
|---|---|---|
| $I_{T(RMS)}$ | 25 | A |
| $V_{DRM}$ /$V_{RRM}$ | 600 | V |
| $I_{GT}$ / / / | 50/50/50/70 | mA |

## ABSOLUTE MAXIMUM RATINGS

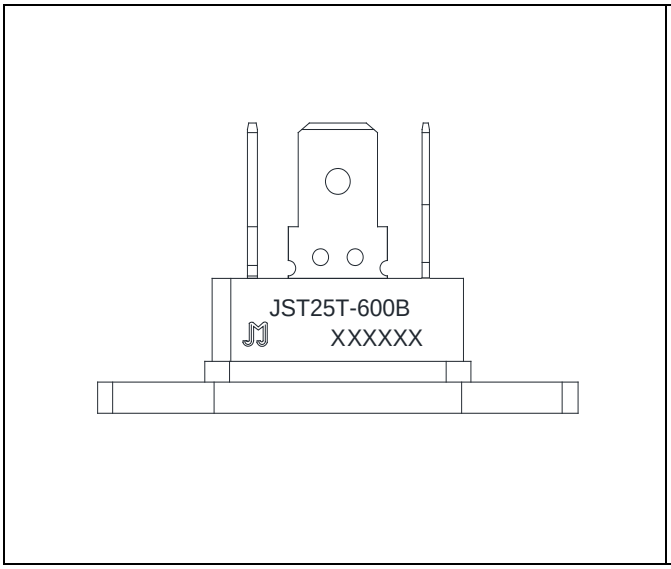
| Parameter | | Symbol | Value | Unit |
|---|---|---|---|---|
| Storage junction temperature range | | $T_{stg}$ | -40-150 | |
| Operating junction temperature range | | $T_j$ | -40-125 | |
| Repetitive peak off-state voltage ($T_j$=25 ) | | $V_{DRM}$ | 600 | V |
| Repetitive peak reverse voltage ($T_j$=25 ) | | $V_{RRM}$ | 600 | V |
| RMS on-state current ($T_C$ 90 ) | | $I_{T(RMS)}$ | 25 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=20ms , $T_j$=25 ) | | $I_{TSM}$ | 250 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=16.6ms , $T_j$=25 ) | | | 275 | |
| $I^2t$ value for fusing ($t_p$=10ms , $T_j$=25 ) | | $I^2t$ | 340 | $A^2s$ |
| Critical rate of rise of on-state current ($I_G$=2×$I_{GT}$ , f=100Hz , $T_j$=125 ) | - | dI/dt | 100 | A s |
| | - | | 50 | |
| Peak Tf Isate current (20 s , $T_j$=125 ) | | $I_{GM}$ | 4 | A |
| AverageIsate power dissipation ($T_j$=125 ) | | $P_{G(AV)}$ | 0.5 | W |
| Peak Tf Isate power | | $P_{GM}$ | 10 | W |

Peak pulse voltage
($T_{jT}$

## ORDERING INFORMATION




## MARKING



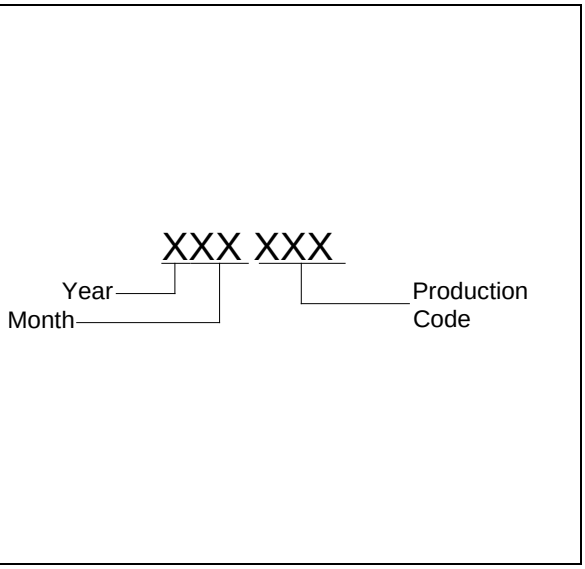
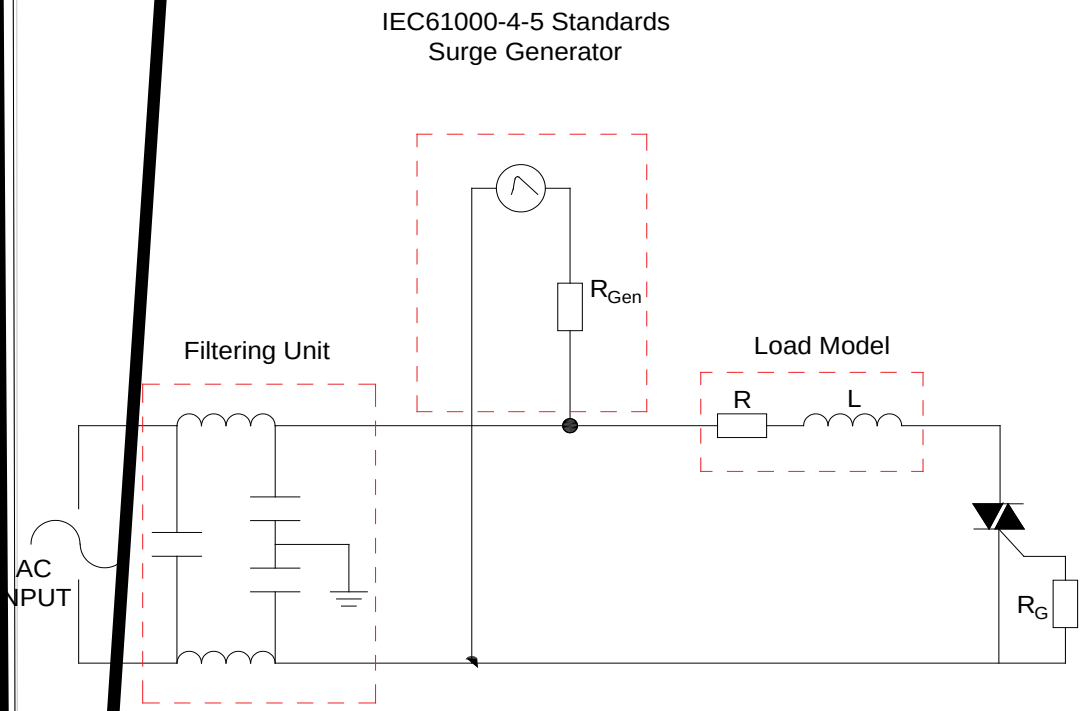



FIG.7 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards LEAD FORMING



PACKAGE MECHANICAL DATA



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