# T0450H-6E 4A TRIAC

Rev.A.1.1

## DESCRIPTION:

The T0450H-6E 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. Compared to traditional triacs, T0450H-6E provides a very high switching capability up to junction temperatures of 150°C. Package TO-263 is RoHS compliant.

## MAIN FEATURES

## ABSOLUTE MAXIMUM RATINGS

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Storage junction temperature range | $T_{stg}$ | -40-150 | |
| Operating junction temperature range | $T_j$ | -40-150 | |
| 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 ($T_C \leq$ 137 ) | $I_{T(RMS)}$ | 4 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=20ms , $T_j$=25 ) | $I_{TSM}$ | 40 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=16.6ms , $T_j$=25 ) | | 44 | |

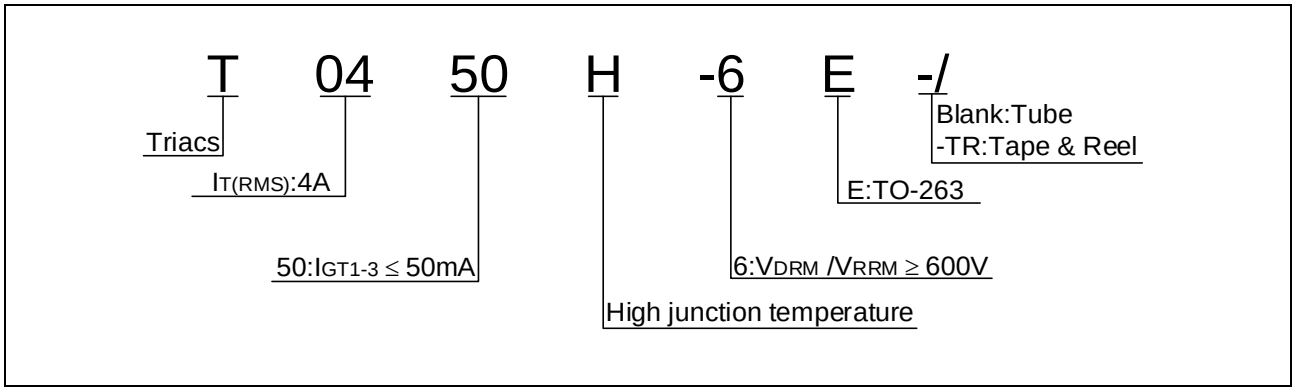
$I^2$

| | | | |
|---|---|---|---|
| Peak pulse voltage<br>($T_j$=25 ; non-repetitive,off-state;FIG.8) | $V_{pp}$ | 4 | kV |

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

Symbol

## ORDERING INFORMATION




## MARKING

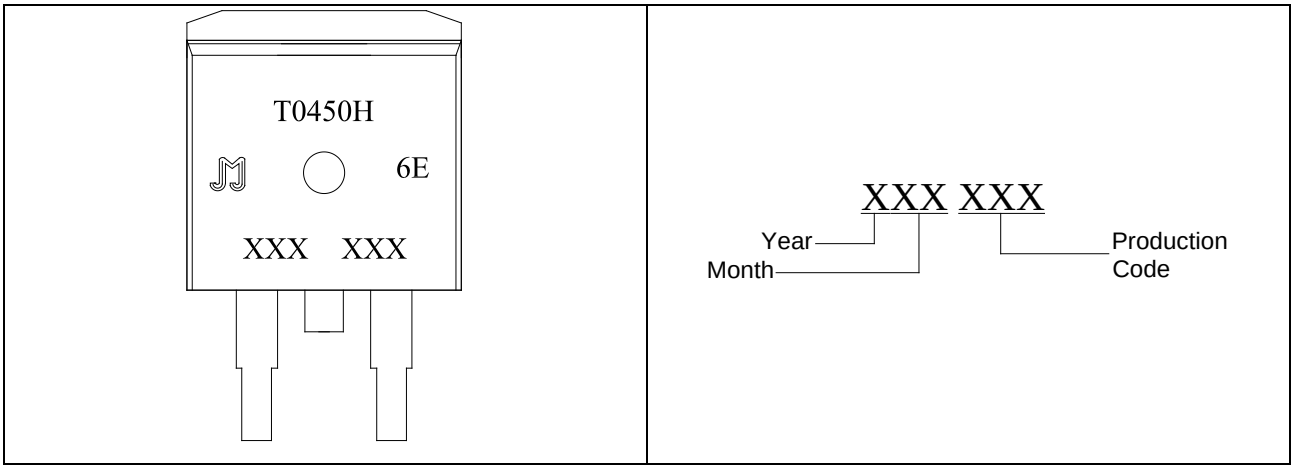


FIG.1: Maximum power dissipation versus RMS on-state current

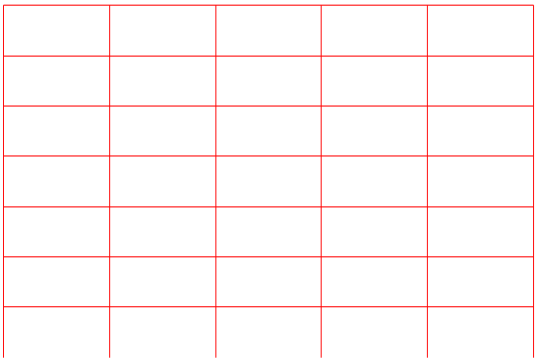
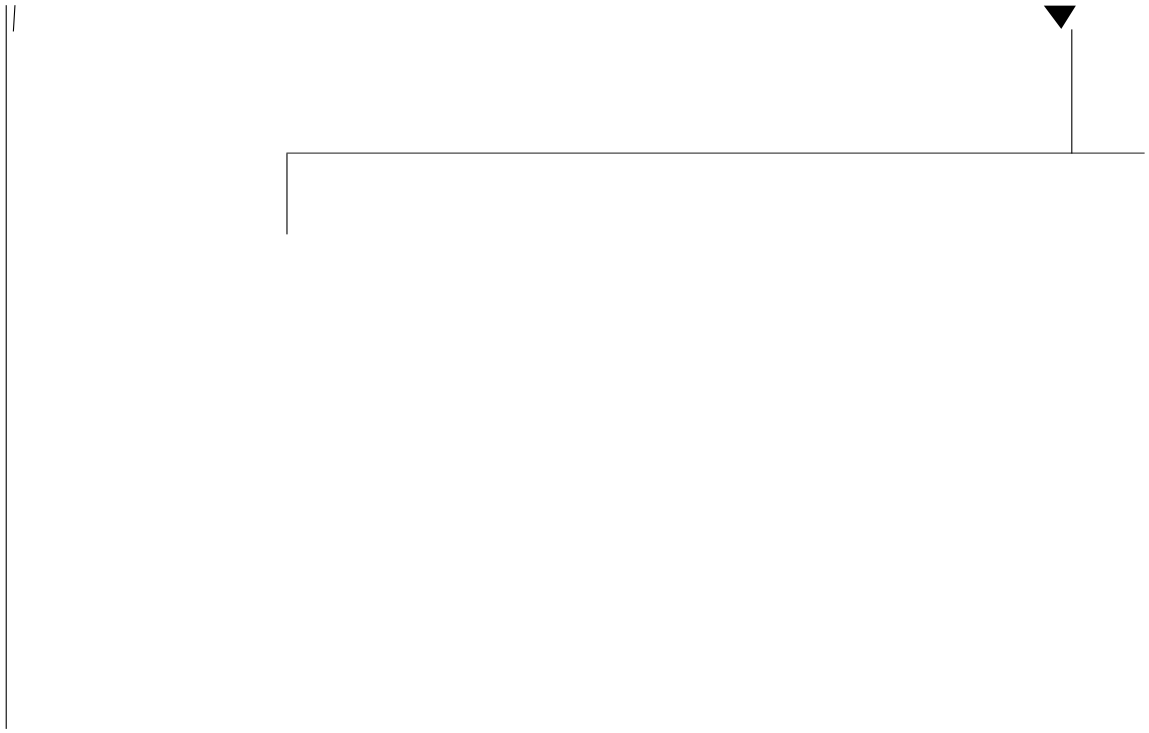


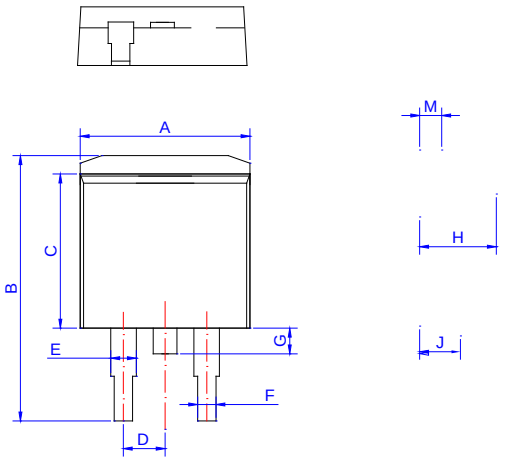
FIG.2: RMS on-state current versus case temperature

FIG.7:

FIG.8 Test circuit for inductive and resistive loads to IEC-61000-4-5 standards

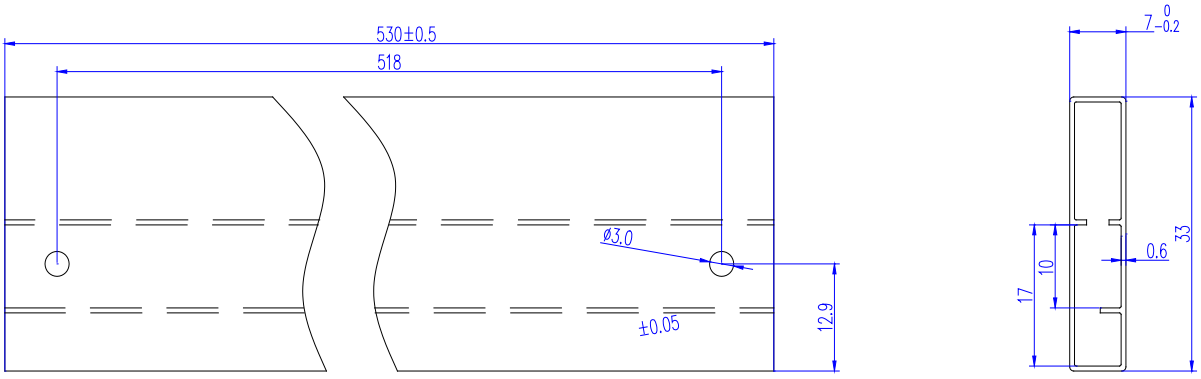


# PACKAGE MECHANICAL DATA




| Ref. | Dimensions | | | | | |
|---|---|---|---|---|---|---|
| | Millimeters | | | Inches | | |
| | Min. | Typ. | Max. | Min. | Typ. | Max. |
| A | 9.90 | | 10.20 | 0.390 | | 0.402 |
| | | | | | | |
| B | 14.70 | | 15.80 | 0.579 | | 0.622 |
| | | | | | | |
| C | 9.40 | | 9.60 | 0.370 | | 0.378 |
| | | | | | | |
| D | 2.40 | | | 0.094 | | |
| E | 1.20 | | 1.50 | 0.047 | | 0.059 |
| F | 0.75 | | 0.85 | 0.029 | | 0.033 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
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## DELIVERY MODE



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