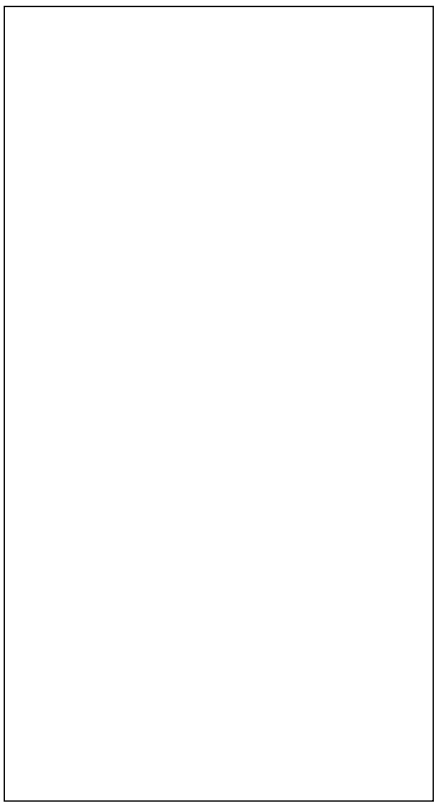
# T0610H-8E 6A TRIAC

Rev.A.1.0

## DESCRIPTION:

The T0610H-8E 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, T0610H-8E provides a very high switching capability up to junction temperatures of 150°C. It can be driven directly through the MCU I/O port. Package TO-263 is RoHS compliant.



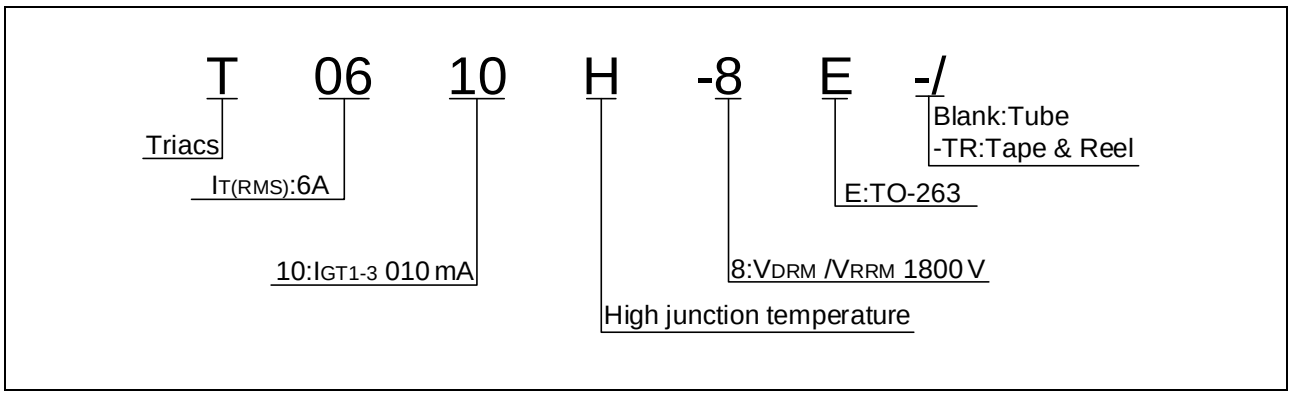
## MAIN FEATURES

| Symbol | Value | Unit |
|---|---|---|
| $I_{T(RMS)}$ | 6 | A |
| $V_{DRM}$ /$V_{RRM}$ | 800 | V |
| $I_{GT}$ / / | 10/10/10 | mA |

## 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 ) | $V_{DRM}$ | 800 | V |
| Repetitive peak reverse voltage ($T_j$=25 ) | $V_{RRM}$ | 800 | V |
| RMS on-state current ($T_C$ 0132 ) | $I_{T(RMS)}$ | 6 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=20ms , $T_j$=25 ) | $I_{TSM}$ | 60 | A |
| Non repetitive surge peak on-state current (full cycle , $t_p$=16.6ms , $T_j$=25 ) | | 66 | |
| $I^2t$ value for fusing ($t_p$=10ms , $T_j$=25 ) | $I^2t$ | 18 | $A^2s$ |
| Critical rate of rise of on-state current ($I_G$=2× $I_{GT}$ , f=100Hz , $T_j$=150 ) | dI/dt | 50 | A s |
| Peak gate current ($t_p$=20 s , $T_j$=150 ) | $I_{GM}$ | 4 | A |
| Average gate power dissipation ($T_j$=150 ) | $P_{G(AV)}$ | 1 | W |

## ORDERING INFORMATION




## MARKING

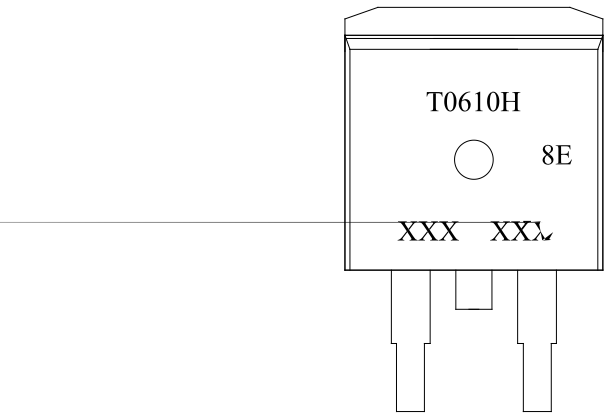


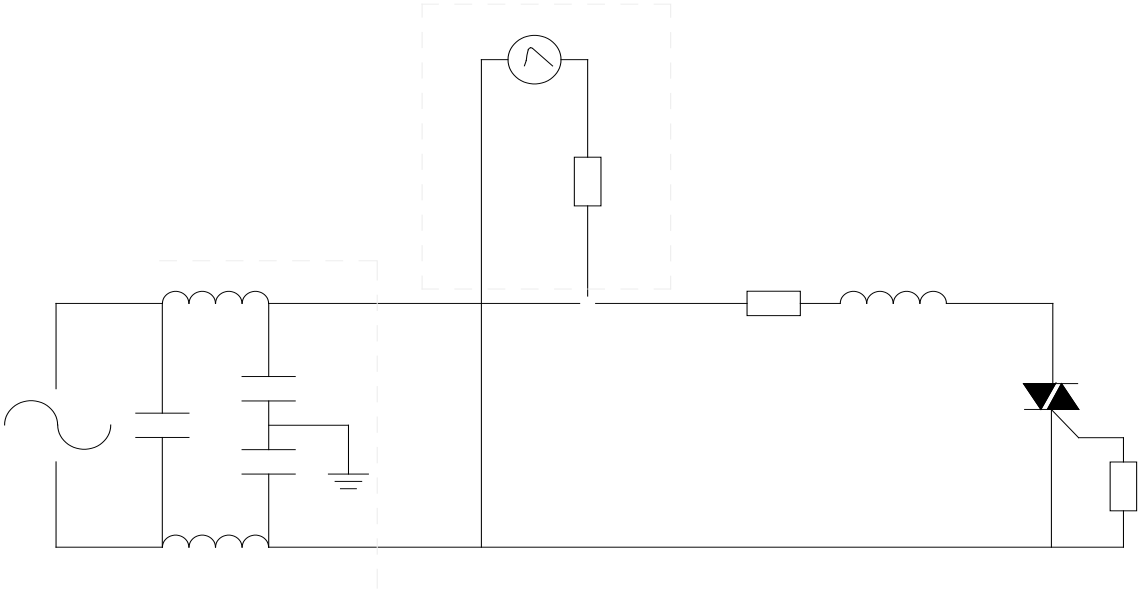
FIG.1 Maximum power dissipation versus RMS on-state current

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

FIG.7: Relative variations of gate trigger current, holding current and latching current versus junction temperature

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



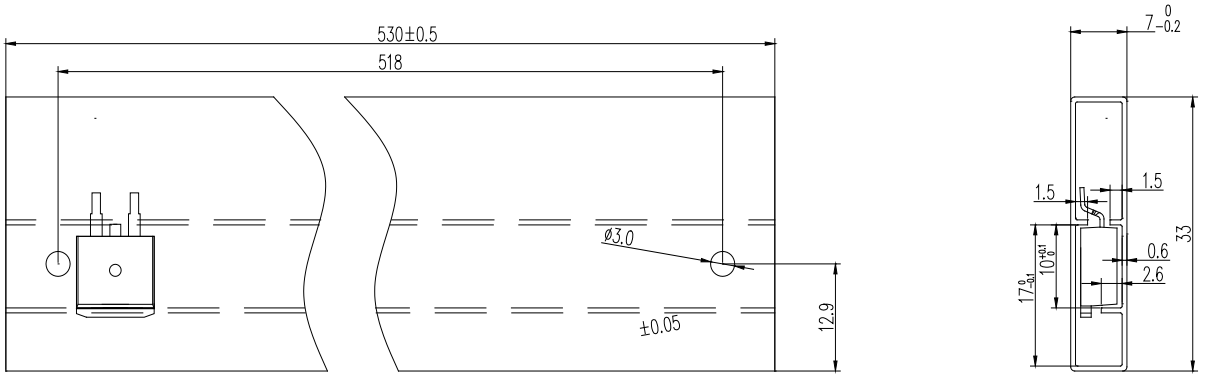
## ORDERING INFORMTON

| Order coe | Voltage $V_{DRM}/V_{RRM}$ (V) | IGT(m ) | Packag | Base qty. | mode |
|---|---|---|---|---|---|
| | | - - | | | |
| T0610H-8E-TR | | | | 800 | Tape Reel |

## Document Revision History

| Date | Revision | Changes |
|---|---|---|
| Apr. 3 | A.1.0 | Last upd |

## DELIVERY MODE




| PACKAGE | OUTLINE | TUBE (PCS) | INNER BOX (PCS) | PER CARTON |
|---|---|---|---|---|
| TO-263 | | | | |

R Tm 6 (E-8.6 (UBE)]TJ 0 T9 0 Td ( )Tj E-0.001 Tw4MCID 10 >>-)Tj 0.001 Tc -0.9.354 1.65950Td (26

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