# T0835H-6E 8A TRIAC

Rev.A.1.1

## DESCRIPTION:

The T0835H-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, T0835H-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 ($T_C$ 133 | | | |

| | | | |
|---|---|---|---|
| Peak pulse voltage<br>($T_j$=25 ; non-repetitive,off-state;FIG.8) | $V_{pp}$ | 3 | kV |

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

| Symbol | Test Condition | Quadrant | Value | Unit |
|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33Ω | | | |

## ORDERING INFORMATION

T 08 35 H -6 E -/

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

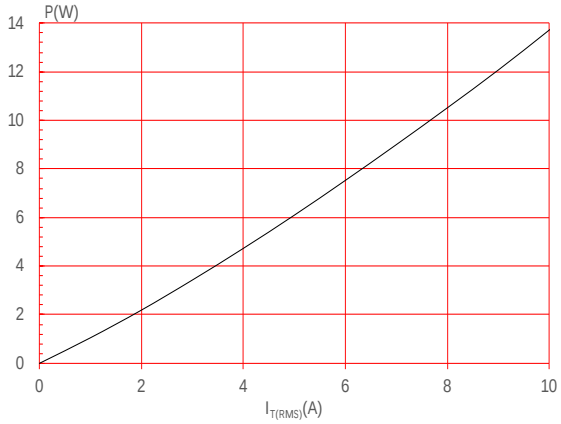



**FIG.2:** RMS on-state current versus case temperature

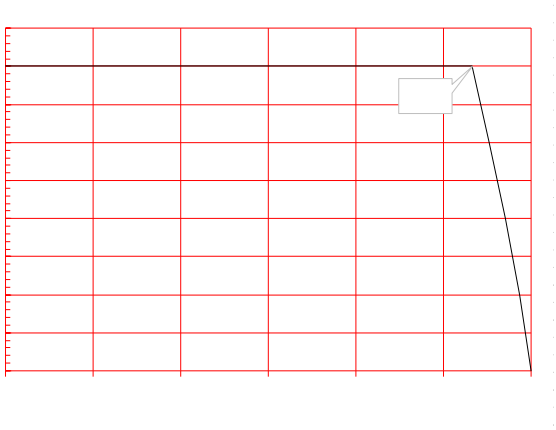
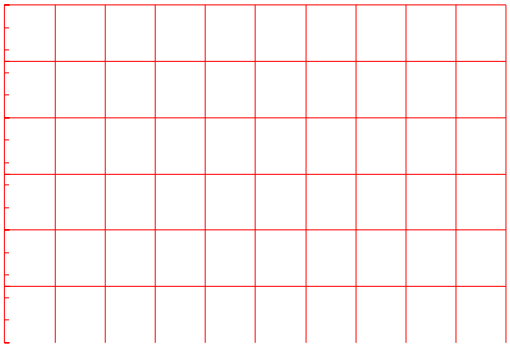


**FIG.7:** Relative variations of gate trigger current, holding current and latching current versus junction temperature



**T0835H-6E**

## 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 |
| | | | | 0094 | | |
| C | 9.40 | | 9.60 | 0.370 | | 0.378 |
| D | 2.40 | | | 0.094 | | |
| E | 1.20 | | 007 Tc | 0.007 Tw6 | | |
| F | | | | | | |

## DELIVERY MODE