

T0850H-6A 8A TRIAC

Rev.A.1.1

## DESCRIPTION:

The T0850H-6A 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, T0850H-6A provides a very high switching capability up to junction temperatures of 150°C. By using an internal ceramic pad, T0850H-6A provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-220A is RoHS compliant.

MAIN FEATURES-5 -29. U(N)0.4T cF:NmFS

|                                                                                              |             |     |    |
|----------------------------------------------------------------------------------------------|-------------|-----|----|
| Average gate power dissipation ( $T_j=150\text{ }^{\circ}\text{C}$ )                         | $P_{G(AV)}$ | 1   | W  |
| Peak gate power                                                                              | $P_{GM}$    | 10  | W  |
| Peak pulse voltage<br>( $T_j=25\text{ }^{\circ}\text{C}$ ; non-repetitive, off-state; FIG.7) | $V_{pp}$    | 3.5 | kV |

ORDERING INFORMATION

|                  |           |           |                           |                     |                |
|------------------|-----------|-----------|---------------------------|---------------------|----------------|
| <b>T</b>         | <b>08</b> | <b>50</b> | <b>H</b>                  | <b>-6</b>           | <b>A</b>       |
| Triacs           |           |           |                           |                     | A:TO-220A(Ins) |
| IT(RMS):8A       |           |           |                           |                     |                |
| 50:IGT1-3 050 mA |           |           |                           | 6:VDRM /VRRM 1600 V |                |
|                  |           |           | High junction temperature |                     |                |

MARKING

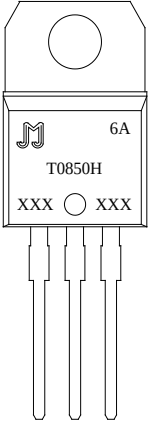
|                                                                                     |                                                                      |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|
|  | <p><b>XXX XXX</b></p> <p>Year—<br/>Month—</p> <p>Production Code</p> |
|-------------------------------------------------------------------------------------|----------------------------------------------------------------------|

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

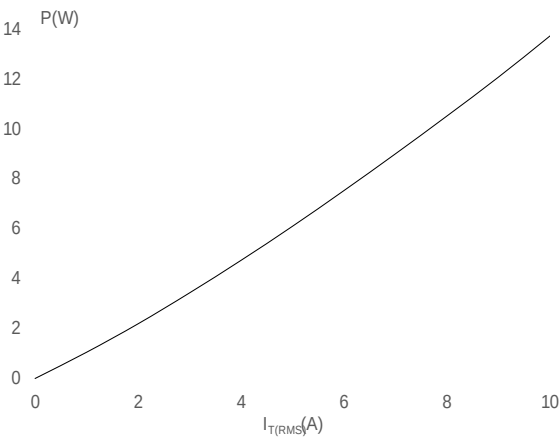


FIG.3: Surge peak on-state current versus number of cycles

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

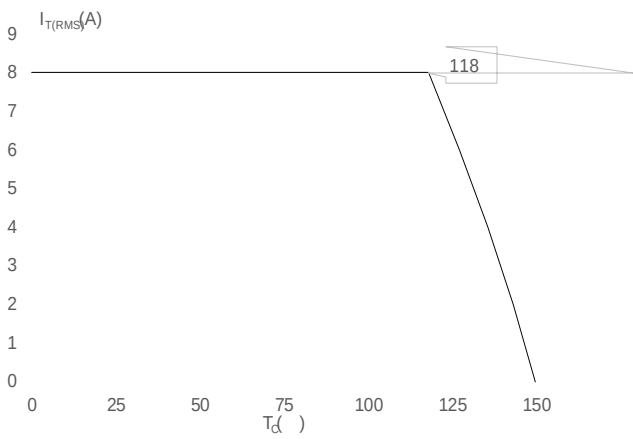


FIG.4: On-state characteristics



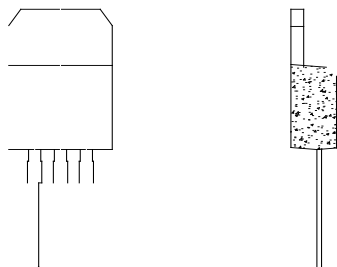
## ORDERING INFORMATION

| Order code | Voltage<br>$V_{\text{DRM}}/V_{\text{RRM}}$ (V) | IGT(mA) | Package      | Base qty.<br>(pcs) | Delivery<br>mode |
|------------|------------------------------------------------|---------|--------------|--------------------|------------------|
|            |                                                | - -     |              |                    |                  |
| T0850H-6A  | 600                                            | 50      | TO-220A(Ins) | 50                 | Tube             |

## Document Revision History

| Date         | Revision | Changes                        |
|--------------|----------|--------------------------------|
| Apr.11, 2023 | A.1.0    | Last updated                   |
| Oct.11, 2025 | A.1.1    | Revise PACKAGE MECHANICAL DATA |

PACKAGE MECHANICAL DATA



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