# T2535H-8E 25A TRIAC

Rev.A.1.1

## DESCRIPTION:

The T2535H-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, on in l an(N)eatperatiieC /P <</MCID 2 C0.33 0 Td (8E)Tj 0 Tc 011.7.7 (86)13o

| | | | |
|---|---|---|---|
| Peak pulse voltage ($T_j$=25 ; non-repetitive,off-state;FIG.8) | $V_{pp}$ | 1.5 | kV |

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

| Symbol | Test Condition | Quadrant | Value | | Unit |
|---|---|---|---|---|---|
| $I_{GT}$ | $V_D$ =12V $R_L$ =33 | - - | MAX. | 35 | mA |
| $V_{GT}$ | | - - | MAX. | 1 | V |
| $V_{GD}$ | $V_D$ =$V_{DRM}$ $T_j$ =150 $R_L$ =3.3k | - - | MIN. | 0.2 | V |
| $I_L$ | $I_G$ =1.2$I_{GT}$ | - | MAX. | 50 | mA |
| | | | | 60 | |
| $I_H$ | $I_T$ =500mA | | MAX. | 40 | mA |
| dV/dt | $V_D$=540V Gate Open $T_j$ =150 | | MIN. | 1000 | V s |
| (dI/dt)c | G 9 G W F j=9150V 7 | | MIN. | 18 | A/ms |
| $t_{on}$ | $I_G$=40mA $I_A$=200mA $I_R$=20mA $T_j$=25 | | TYP. | 10 | s |
| $t_{off}$ | | | | 80 | |

## STATIC CHARACTERISTICS

| Symbol | Parameter | | Value(MAX .) | Unit |
|---|---|---|---|---|
| $V_{TM}$ | $I_{TM}$ =35A $t_p$=380 s | $T_j$=25 | 1.4 | V |
| $V_{TO}$ | Threshold voltage | $T_j$=150 | 0.72 | V |
| $R_D$ | Dynamic resistance | $T_j$=150 | 19 | P |
| $I_{DRM}$ | $V_D$ =$V_{DRM}$ $V_R$ =$V_{RRM}$ | $T_j$5EMC 2 6 6 j <</MCID 114 >>20C /C2_1 1 Tf 0 Tc 0 Tw 1.11 0 7 <0107>Tj EMC /Span <</M | | |

ORDERING INFORMATION

T 25 35 H -

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

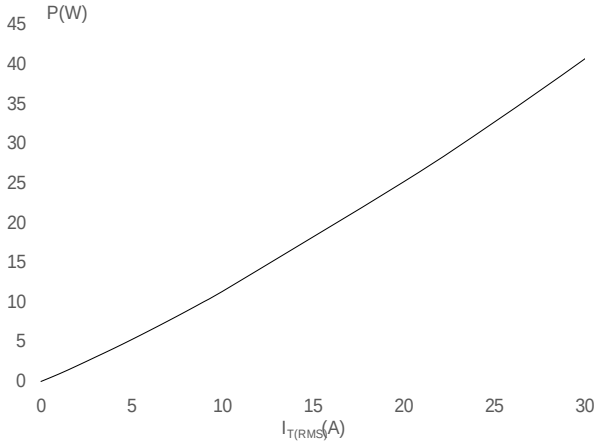



FIG.2: RMS on-state current versus case temperature

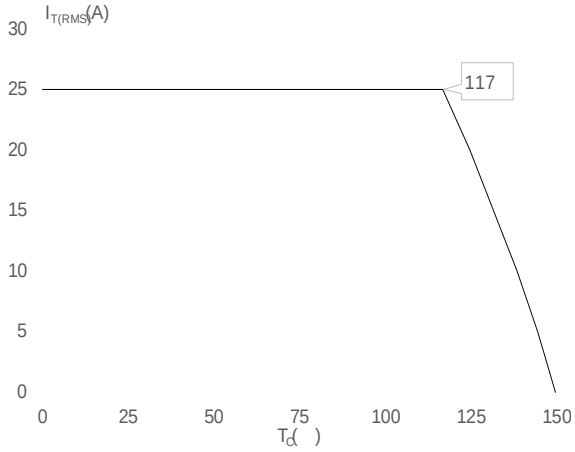



FIG.3: RMS on-state current versus ambj9-5.9n

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

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



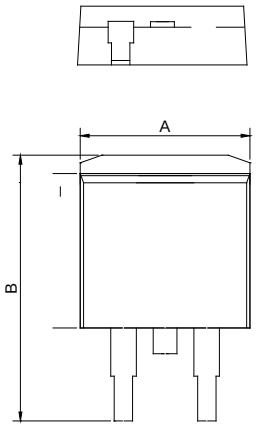
## ORDERING INFORMATION

| Order code | Voltage $V_{DRM}/V_{RRM}$ (V) | IGT(mA) | Package | Base qty. (pcs) | Delivery mode |
|---|---|---|---|---|---|
| | | - - | | | |
| T2535H-8E | 800 | 35 | TO-263 | 50 | Tube |
| T2535H-8E-TR | | | | 800 | Tape & Reel |

Document Revision History

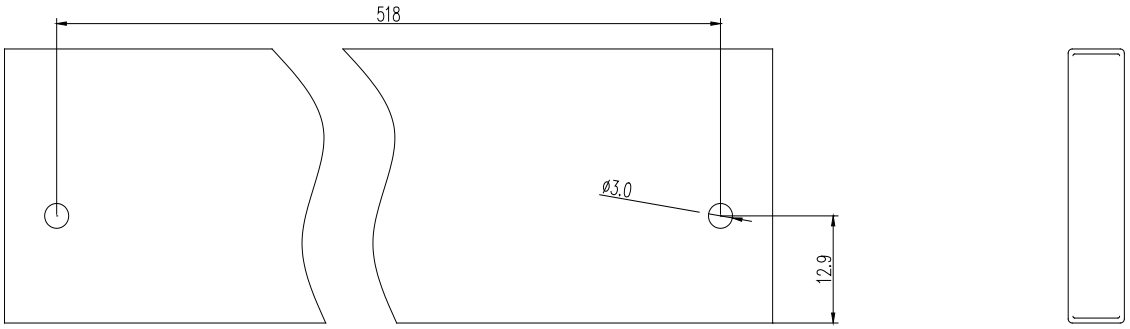
| Date | Revision | Changes |
|---|---|---|
| Apr.10, 2023 | A.1.0 | Last updated |
| Oct.17, 2025 | A.1.1 | Revise PACKAGE MECHANICAL DATA |

# PACKAGE MECHANICAL DATA C1C1




| 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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