



JST08E-800BW 8A TRIAC

Rev.A.1.2

## DESCRIPTION:

The JST08E-800BW triac is suitable for general purpose AC switching. It can be used as an ON/OFF function in

|  |          |     |    |
|--|----------|-----|----|
| Peak pulse voltage<br>( $T_j=25$ ; non-repetitive, off-state; FIG.8) | $V_{pp}$ | 2.5 | kV |
|--|----------|-----|----|

**ELECTRICAL CHARACTERISTICS** (unless otherwise specified)

| Symbol   | Test Condition                        | Quadrant | Value |     | Unit |
|----------|---------------------------------------|----------|-------|-----|------|
| $I_{GT}$ | $V_D=12V$ $R_L=33$                    | - -      | MAX.  | 50  | mA   |
| $V_{GT}$ |                                       | - -      | MAX.  | 1   | V    |
| $V_{GD}$ | $V_D=V_{DRM}$ $T_j=125$<br>$R_L=3.3k$ | - -      | MIN.  | 0.2 | V    |

$I_L$   $I_G=1.2I_{GT}$

ORDERING INFORMATION

|                                   |          |                 |           |          |  |                 |                               |
|-----------------------------------|----------|-----------------|-----------|----------|--|-----------------|-------------------------------|
|                                   | <b>J</b> | <b>ST</b>       | <b>08</b> | <b>E</b> | <b>-800</b>                                  | <b>BW</b>       | <b>-/</b>                     |
| JieJie Microelectronics Co., Ltd. | Triacs   | $I_{T(RMS)}:8A$ |           | E:TO-263 |  | BW:IGT1-3 050mA | Blank:Tube<br>-TR:Tape & Reel |
|                                   |          |                 |           |          | 800:V <sub>DRM</sub> /V <sub>RRM</sub> 1800V |                 |                               |

MARKING

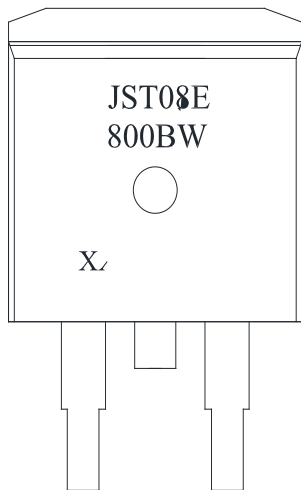
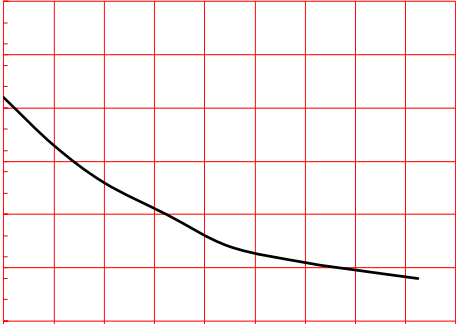


FIG.1: Maximum power dissipation versus RMS on-state current



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





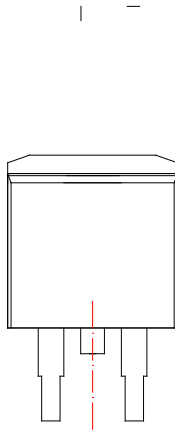
## ORDERING INFORMATION

| Order code      | Voltage<br>$V_{DRM}/V_{RRM}$ (V) | IGT(mA) | Package | Base qty.<br>(pcs) | Delivery mode |
|-----------------|----------------------------------|---------|---------|--------------------|---------------|
|                 |                                  | - -     |         |                    |               |
| JST08E-800BW    | 800                              | 50      | TO-263  | 50                 | Tube          |
| JST08E-800BW-TR |                                  |         |         | 800                | Tape & Reel   |

## Document Revision History

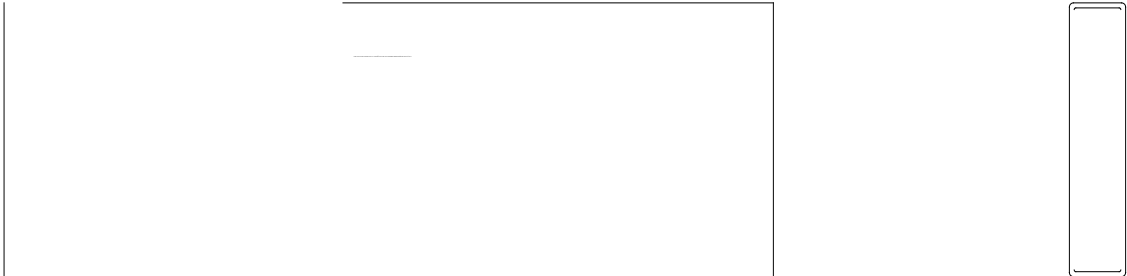
| Date         | Revision | Changes                        |
|--------------|----------|--------------------------------|
| Apr.11, 2023 | A.1.0    | Last updated                   |
| Aug.11, 2025 | A.1.1    | Revise dV/dt & (dl/dt)c        |
| Oct.17, 2025 | A.1.2    | Revise PACKAGE MECHANICAL DATA |

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 |
|      |             |      |       |        |      |       |
|      |             |      |       |        |      |       |
|      |             |      |       |        |      |       |
|      |             |      |       |        |      |       |

DELIVERY MODE



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