



## JST26Z-800BW 25A TRIAC

Rev.A.1.1

The JST26Z-800BW 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. JST26Z-800BW snubberless triac is especially recommended for use on inductive loads. By using an internal ceramic pad, JST26Z-800BW provides a rated insulation voltage of 2500 VRMS, complying with UL standards (File ref: E252906). Package TO-3P is RoHS compliant.

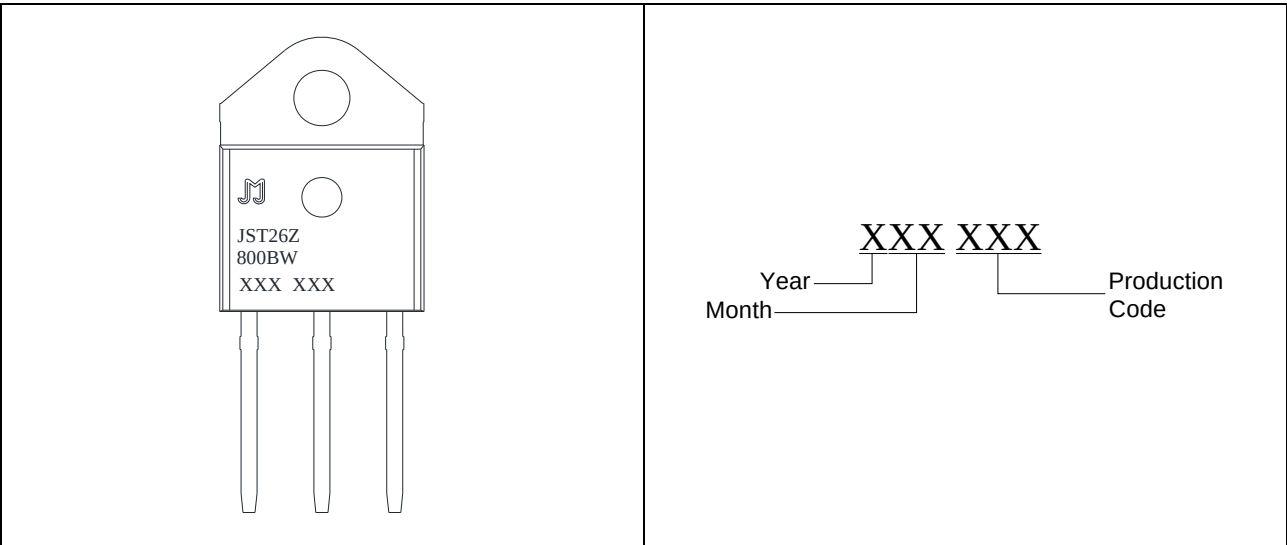
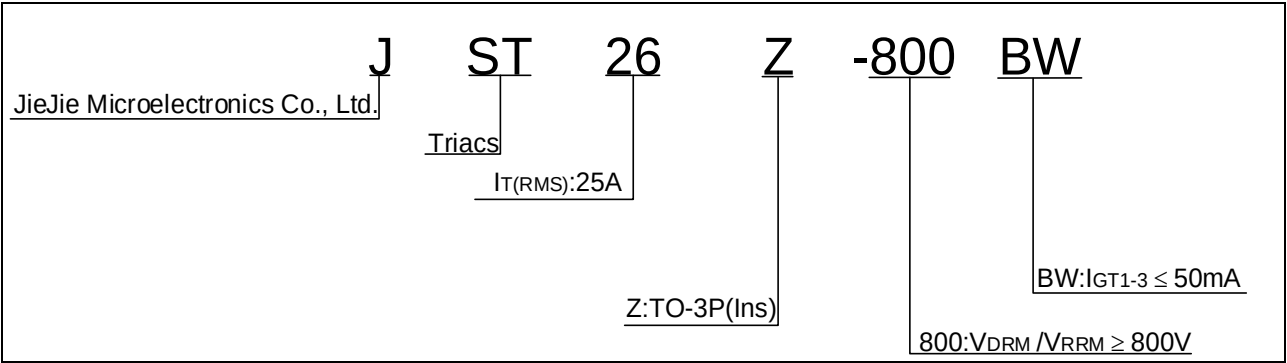
|                                                                      |          |    |    |
|----------------------------------------------------------------------|----------|----|----|
| Peak gate power                                                      | $P_{GM}$ | 10 | W  |
| Peak pulse voltage<br>( $T_j=25$ ; non-repetitive, off-state; FIG.7) | $V_{pp}$ | 5  | kV |

(T<sub>j</sub>=25 unless otherwise specified)

| Symbol               | Test Condition                                                                        | Quadrant | Value |      | Unit |
|----------------------|---------------------------------------------------------------------------------------|----------|-------|------|------|
| I <sub>GT</sub>      | V <sub>D</sub> =12V R <sub>L</sub> =33Ω                                               | - -      | MAX.  | 50   | mA   |
| V <sub>GT</sub>      |                                                                                       | - -      | MAX.  | 1    | V    |
| V <sub>GD</sub>      | V <sub>D</sub> =V <sub>DRM</sub> T <sub>j</sub> =125<br>R <sub>L</sub> =3.3kΩ         | - -      | MIN.  | 0.2  | V    |
| I <sub>L</sub>       | I <sub>G</sub> =1.2I <sub>GT</sub>                                                    | -        | MAX.  | 80   | mA   |
|                      |                                                                                       |          |       | 100  |      |
| I <sub>H</sub>       | I <sub>T</sub> =500mA                                                                 |          | MAX.  | 75   | mA   |
| dV/dt                | V <sub>D</sub> =540V Gate Open T <sub>j</sub> =125                                    |          | MIN.  | 2000 | V/μs |
| (dI/dt) <sub>c</sub> | (dV/dt) <sub>c</sub> =20V/μs T <sub>j</sub> =125                                      |          | MIN.  | 25   | A/ms |
| t <sub>on</sub>      | I <sub>G</sub> =80mA I <sub>A</sub> =400mA I <sub>R</sub> =40mA<br>T <sub>j</sub> =25 |          | TYP.  | 10   | μs   |
| t <sub>off</sub>     |                                                                                       |          |       | 70   |      |

| Symbol    | Parameter                   |           | Value(MAX.) | Unit       |
|-----------|-----------------------------|-----------|-------------|------------|
| $V_{TM}$  | $I_{TM}=35A$ $t_p=380\mu s$ | $T_j=25$  | 1.5         | V          |
| $V_{TO}$  | Threshold voltage           | $T_j=125$ | 0.73        | V          |
| $R_D$     | Dynamic resistance          | $T_j=125$ | 25          | m $\Omega$ |
| $I_{DRM}$ | $V_D=V_{DRM}$ $V_R=V_{RRM}$ | $T_j=25$  | 5           | $\mu A$    |
| $I_{RRM}$ |                             | $T_j=125$ | 2           | mA         |

| Symbol        | Parameter                | Value | Unit |
|---------------|--------------------------|-------|------|
| $R_{th(j-c)}$ | junction to case (AC)    | 1.1   | /W   |
| $R_{th(j-a)}$ | junction to ambient (AC) | 50    | /W   |



**JST26Z-800BW**



| Order code   | Voltage<br>$V_{\text{DRM}}/V_{\text{RRM}}(\text{V})$ | IGT(mA) | Package    | Base qty.<br>(pcs) | Delivery<br>mode |
|--------------|------------------------------------------------------|---------|------------|--------------------|------------------|
|              |                                                      | - -     |            |                    |                  |
| JST26Z-800BW | 800                                                  | 50      | TO-3P(Ins) | 30                 | Tube             |

#### Document Revision History

| Date         | Revision | Changes                        |
|--------------|----------|--------------------------------|
| Apr.12, 2023 | A.1.0    | Last update                    |
| Oct.16, 2025 | A.1.1    | Revise PACKAGE MECHANICAL DATA |



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