

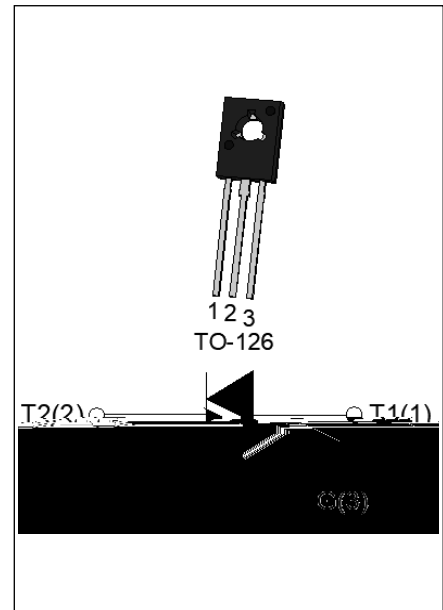


## JST136Q-600E 4A TRIAC

Rev.A.1.0



The JST136Q-600E triac is suitable for AC switching applications. It can be used as a switch for ON/OFF function in AC circuits. It has a high switching speed and low power consumption. It is suitable for use in AC circuits with a maximum current of 4A and a maximum voltage of 600V. It is a TO-18 package.



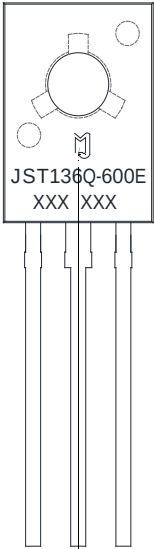
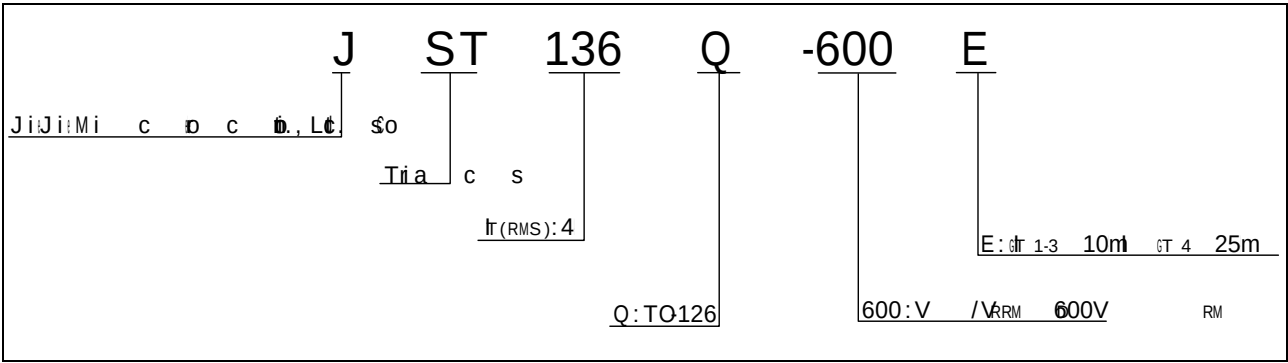
| Symbol     | Value       | Unit |
|------------|-------------|------|
| $I_T(RMS)$ | 4           | A    |
| $V_{RRM}$  | 600         | V    |
| $t_{IT}$   | 10/10/10/25 | ms   |



| Parameter                                                                                                     | Symbol     | Value   | Unit |
|---------------------------------------------------------------------------------------------------------------|------------|---------|------|
| Storage temperature                                                                                           | $T_S$      | -40-150 | °C   |
| Operating temperature                                                                                         | $T_J$      | -40-125 | °C   |
| Repetitive peak voltage (T <sub>J</sub> = 25 °C)                                                              | $V_{RM}$   | 600     | V    |
| Repetitive peak voltage (T <sub>J</sub> = 25 °C)                                                              | $V_{RRM}$  | 600     | V    |
| RMS current (T <sub>J</sub> = 83 °C)                                                                          | $I_T(RMS)$ | 4       | A    |
| Non-repetitive surge current (f <sub>u</sub> = 200 Hz, t <sub>f</sub> = 25 ms)                                | $I_{SM}$   | 35      | A    |
| Non-repetitive surge current (f <sub>u</sub> = 16.6 Hz, t <sub>f</sub> = 25 ms)                               |            | 38.5    |      |
| Turn-off time (t <sub>p</sub> = 10 ms, T <sub>J</sub> = 25 °C)                                                | $t_t$      | 6.1     | μs   |
| Critical rate of rise of current (I <sub>G</sub> = 2 × I <sub>GT</sub> , f = 100 Hz, T <sub>J</sub> = 125 °C) | $dI/dt$    | 80      | A/μs |
|                                                                                                               |            | 40      |      |
| Power dissipation (T <sub>J</sub> = 25 °C, T <sub>f</sub> = 125 °C)                                           | $P_{TM}$   | 2       | W    |
| Gate power dissipation (T <sub>J</sub> = 125 °C)                                                              | $P_{G(V)}$ | 0.5     | W    |
| Power dissipation (T <sub>J</sub> = 125 °C)                                                                   | $P_{GM}$   | 5       | W    |
| Peak voltage (T <sub>J</sub> = 25 °C; non-repetitive; f = 0.7)                                                | $V_p$      | 3.5     | V    |

 (T<sub>F</sub>=25℃, min, typical, max)

| Symbol         | Test Condition                           | Quadrant | Value | Unit |
|----------------|------------------------------------------|----------|-------|------|
| I <sub>T</sub> | V <sub>CE</sub> =12V R <sub>L</sub> =33Ω |          |       | mA   |





JST136Q-600E

JieJie MB (CM)]TJ -0.004 Tc 0.004 Tw 0.8



| Order code   | Voltage<br>V <sub>DRM</sub> /V <sub>RRM</sub> (V) | IGT(mA) |    | Package | Base qty.<br>(pcs) | Delivery<br>mode |
|--------------|---------------------------------------------------|---------|----|---------|--------------------|------------------|
|              |                                                   | - -     |    |         |                    |                  |
| JST136Q-600E | 600                                               | 10      | 25 | TO-126  | 500                | Bulk Pack        |

Document Revision History

| D          | Rev | Change  |
|------------|-----|---------|
| p 14, 2023 | 1.0 | Initial |



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