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BT134-600D

4Q Triac 21 November 2013

Product data sheet

1. General description

Planar passivated very sensitive gate four quadrant triac in a SOT82 plastic package intended for use in general purpose bidirectional switching and phase control applications where high sensitivity is required in all four quadrants. This "series D" triac is intended to be interfaced directly to microcontrollers, logic integrated circuits and other low power gate trigger circuits.

2. Features and benefits

- Compact package
- Direct interfacing to logic level ICs
- · Direct interfacing to low power gate drive circuits
- High blocking voltage capability
- Low holding current for low current loads and lowest EMI at commutation
- Planar passivated for voltage ruggedness and reliability
- Triggering in all four quadrants
- Very sensitive gate

3. Applications

- General purpose low power motor control
- Home appliances
- Industrial process control

4. Quick reference data

| Table 1. Qui | ck reference data | | | | | |
|---------------------|--|---|-----|-----|-----|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| V _{DRM} | repetitive peak off- state voltage | | - | - | 600 | V |
| I _{TSM} | non-repetitive peak on- state current | full sine wave; $T_{j(init)} = 25 \text{ °C};$ $t_p = 20 \text{ ms}; \text{ Fig. 4; Fig. 5}$ | - | - | 25 | A |
| I _{T(RMS)} | RMS on-state current | full sine wave; T _{mb} ≤ 107 °C; <u>Fig. 1;</u> <u>Fig. 2; Fig. 3</u> | - | - | 4 | A |
| Static charact | eristics | | | | | |
| I _{GT} | gate trigger current | V _D = 12 V; I _T = 0.1 A; T2+ G+; T _j = 25 °C; <u>Fig. 7</u> | - | 2 | 5 | mA |







BT134-600D

4Q Triac

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|----------------|-----------------|---|-----|-----|-----|------|
| | | V _D = 12 V; I _T = 0.1 A; T2+ G-; T _j = 25 °C; <u>Fig. 7</u> | - | 2.5 | 5 | mA |
| | | V _D = 12 V; I _T = 0.1 A; T2- G-; T _j = 25 °C; <u>Fig. 7</u> | - | 2.5 | 5 | mA |
| | | V _D = 12 V; I _T = 0.1 A; T2- G+; T _j = 25 °C; <u>Fig. 7</u> | - | 5 | 10 | mA |
| I _H | holding current | V _D = 12 V; T _j = 25 °C; <u>Fig. 9</u> | - | 1.2 | 10 | mA |

5. Pinning information

| Table 2. | Pinning | information | | |
|----------|---------|-----------------------------------|--|----------------|
| Pin | Symbol | Description | Simplified outline | Graphic symbol |
| 1 | T1 | main terminal 1 | [,] | T2 |
| 2 | T2 | main terminal 2 | | Sym051 |
| 3 | G | gate | | |
| mb | Τ2 | mounting base; main terminal 2 | () (| |

6. Ordering information

| Table 3. Ordering in | formation | | |
|----------------------|-----------|---|---------|
| Type number | Package | | |
| | Name | Description | Version |
| BT134-600D | SIP3 | plastic single-ended package; 3 leads (in-line) | SOT82 |



BT134-600D

4Q Triac

7. Limiting values

Table 4. Limiting values

In accordance with the Absolute Maximum Rating System (IEC 60134).

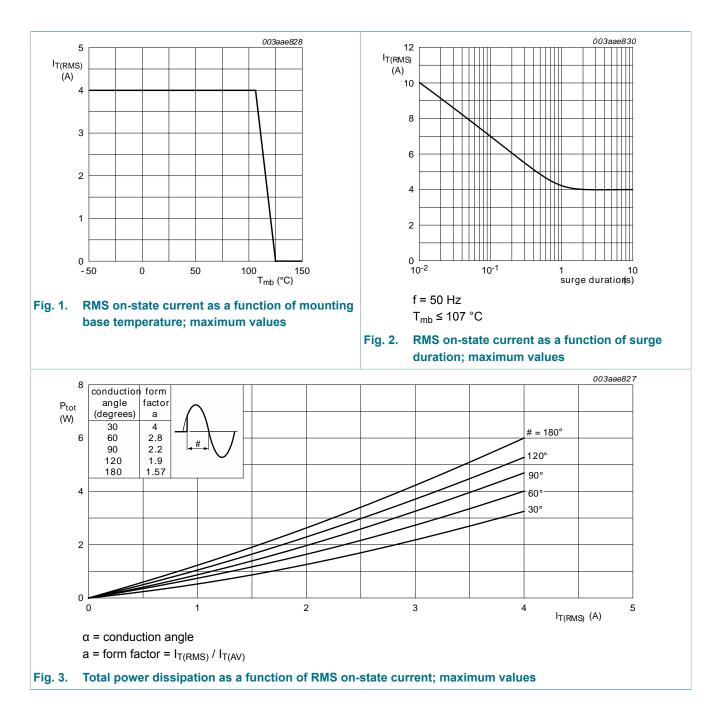
| Symbol | Parameter | Conditions | Min | Max | Unit |
|---------------------|--------------------------------------|---|-----|-----|------------------|
| V _{DRM} | repetitive peak off-state voltage | | - | 600 | V |
| I _{T(RMS)} | RMS on-state current | full sine wave; $T_{mb} \le 107 \text{ °C}$; Fig. 1; Fig. 2; Fig. 3 | - | 4 | A |
| I _{TSM} | non-repetitive peak on-state current | full sine wave; $T_{j(init)} = 25 \text{ °C};$ $t_p = 20 \text{ ms}; \frac{\text{Fig. 4}}{25}; \frac{1}{25}; \frac{1}{2$ | - | 25 | A |
| | | full sine wave; $T_{j(init)} = 25 \text{ °C};$ $t_p = 16.7 \text{ ms}$ | - | 27 | A |
| l ² t | I2t for fusing | t _p = 10 ms; SIN | - | 3.1 | A ² s |
| dI _T /dt | rate of rise of on-state current | $I_T = 6 \text{ A}; I_G = 0.2 \text{ A}; dI_G/dt = 0.2 \text{ A}/\mu\text{s};$ T2+ G+ | - | 50 | A/µs |
| | | $I_T = 6 \text{ A}; I_G = 0.2 \text{ A}; dI_G/dt = 0.2 \text{ A}/\mu\text{s};$ T2+ G- | - | 50 | A/µs |
| | | $I_T = 6 \text{ A}; I_G = 0.2 \text{ A}; dI_G/dt = 0.2 \text{ A}/\mu\text{s};$ T2- G- | - | 50 | A/µs |
| | | $I_T = 6 \text{ A}; I_G = 0.2 \text{ A}; dI_G/dt = 0.2 \text{ A}/\mu\text{s};$ T2- G+ | - | 10 | A/µs |
| I _{GM} | peak gate current | | - | 2 | А |
| P _{GM} | peak gate power | | - | 5 | W |
| P _{G(AV)} | average gate power | over any 20 ms period | - | 0.5 | W |
| T _{stg} | storage temperature | | -40 | 150 | °C |
| Tj | junction temperature | | - | 125 | °C |



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4Q Triac



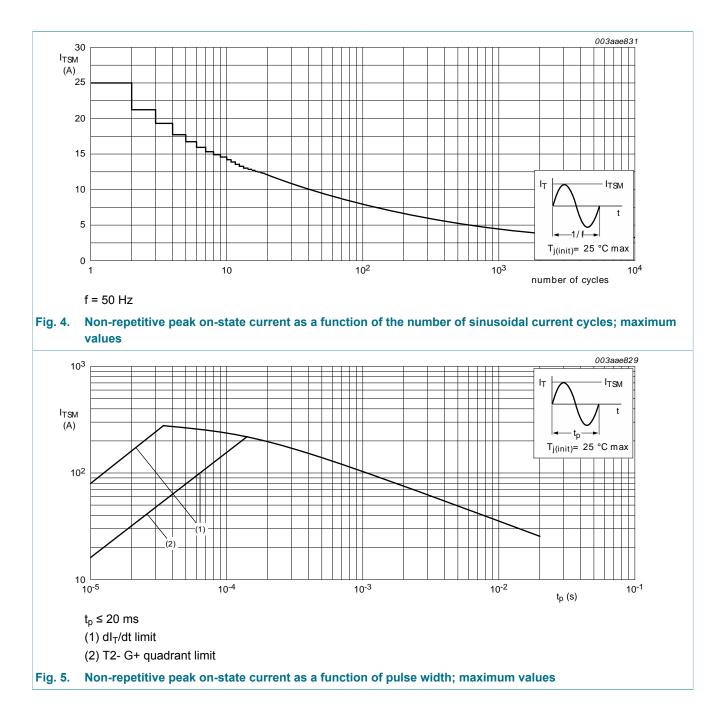
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4Q Triac



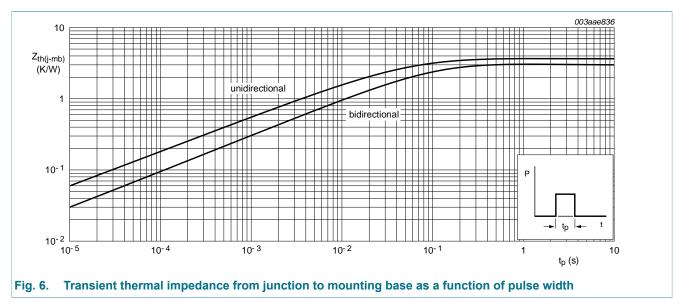


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4Q Triac

8. Thermal characteristics

| Table 5. The | ermal characteristics | | | | | |
|-----------------------|---|---------------------------|-----|-----|-----|------|
| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
| R _{th(j-mb)} | thermal resistance | half cycle; Fig. 6 | - | - | 3.7 | K/W |
| | from junction to mounting base | full cycle; <u>Fig. 6</u> | - | - | 3 | K/W |
| R _{th(j-a)} | thermal resistance from junction to ambient | in free air | - | 100 | - | K/W |





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4Q Triac

9. Characteristics

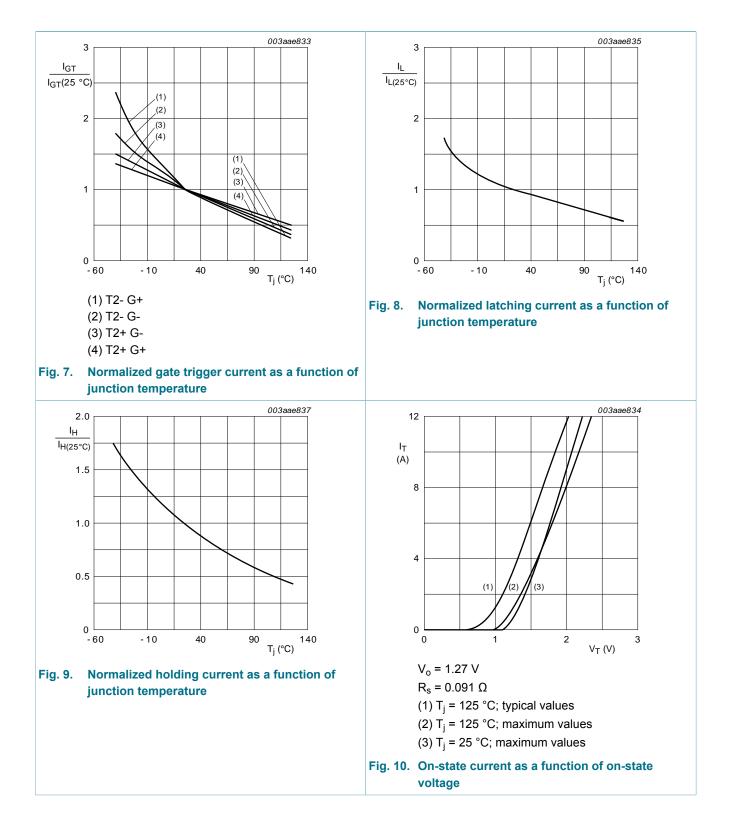
| | Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|--|---------------------|----------------------|--|------|-----|-----|------|
| $ \begin{array}{ c c c c c c c c c c c c c c c c c c c$ | Static chara | acteristics | 1 | I | | | |
| $ \begin{array}{ c c c c c c } & I_{1} = 25 \ ^{\circ} C; \ \ Fig. 7 \\ \hline V_{D} = 12 \ V; \ I_{T} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 7 \\ \hline V_{D} = 12 \ V; \ I_{T} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 7 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 + G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 + G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 + G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 + G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 + G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 8 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 9 \\ \hline V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T_{I} = 25 \ ^{\circ} C; \ \ Fig. 9 \\ \hline V_{T} \qquad on-state \ voltage \qquad I_{T} = 5 \ A; \ T_{I} = 25 \ ^{\circ} C; \ \ Fig. 9 \\ \hline V_{D} = 400 \ V; \ I_{I} = 0.1 \ A; \ T_{I} = 25 \ ^{\circ} C; \\ \ I_{G} = 1 \\ \hline V_{D} = 400 \ V; \ I_{T} = 0.1 \ A; \ T_{I} = 125 \ ^{\circ} C; \\ \ I_{G} = 1 \\ \hline V_{D} = 0 \ A \ A \ A \ A \ A \ A \ A \ A \ A \$ | I _{GT} | gate trigger current | | - | 2 | 5 | mA |
| $ \begin{array}{ c c c c c c c } I_{j} = 25 \ ^{\circ}{\rm C}; \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$ | | | | - | 2.5 | 5 | mA |
| $ \begin{array}{ c c c c c c } \hline \mbox{T}_{j} = 25 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ $ | | | | - | 2.5 | 5 | mA |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | - | 5 | 10 | mA |
| $ \begin{array}{c c c c c c c c c } & T_{j} = 25 \ ^{\circ}\text{C}; \ Fig. 8 & & & & & & & & & & & & & & & & & & $ | l | latching current | | - | 1.6 | 10 | mA |
| $ \frac{T_{j} = 25 \ ^{\circ}C; \ Fig. 8}{V_{D} = 12 \ V; \ I_{G} = 0.1 \ A; \ T2 - G+; \ T_{j} = 25 \ ^{\circ}C; \ Fig. 8} \ \ \ \ \ \ \ \ \ \ \ \ \ $ | | | | - | 4.5 | 15 | mA |
| $ \begin{array}{c c c c c c c c c c c c c c c c c c c $ | | | | - | 1.2 | 10 | mA |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | - | 2.2 | 15 | mA |
| $V_{GT} = \begin{cases} gate trigger voltage \\ P_{D} = 12 V; I_{T} = 0.1 A; T_{j} = 25 °C; \\ Fig. 11 \\ V_{D} = 400 V; I_{T} = 0.1 A; T_{j} = 125 °C; \\ Fig. 11 \\ V_{D} = 400 V; I_{T} = 0.1 A; T_{j} = 125 °C; \\ Fig. 11 \\ V_{D} = 600 V; T_{j} = 125 °C \\ I = 0.1 \\ I = 0.$ | I _H | holding current | V _D = 12 V; T _j = 25 °C; <u>Fig. 9</u> | - | 1.2 | 10 | mA |
| $\frac{Fig. 11}{V_{D} = 400 \text{ V}; I_{T} = 0.1 \text{ A}; T_{j} = 125 ^{\circ}\text{C}; \\ Fig. 11} \qquad 0.25 \qquad 0.4 \qquad -$ $\frac{Fig. 11}{V_{D} = 600 \text{ V}; T_{j} = 125 ^{\circ}\text{C}; \\ O.25 \qquad 0.4 \qquad -$ $\frac{O.1}{V_{D} = 600 \text{ V}; T_{j} = 125 ^{\circ}\text{C}; \\ O.25 \qquad 0.4 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad 0.4 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad 0.4 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad 0.5 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad - 0.1 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad - 0.1 \qquad -$ $\frac{O.1}{V_{D} = 0.1 \text{ V}; \\ O.25 \qquad - 0.1 \qquad - $ | V _T | on-state voltage | I _T = 5 A; T _j = 25 °C; <u>Fig. 10</u> | - | 1.4 | 1.7 | V |
| Fig. 11Fig. 11ImageFig. 11 I_D off-state current $V_D = 600 V; T_j = 125 °C$ -0.10.5Dynamic characteristics dV_D/dt rate of rise of off-state voltage $V_{DM} = 402 V; T_j = 125 °C; R_{GT1} = 1 k\Omega;$ $(V_{DM} = 67\% of V_{DRM});$ exponential waveform-5- | V _{GT} | gate trigger voltage | , | - | 0.7 | 1 | V |
| Dynamic characteristics dV_D/dt rate of rise of off-state voltage $V_{DM} = 402 \text{ V}; \text{ T}_j = 125 \text{ °C}; \text{ R}_{GT1} = 1 \text{ k}\Omega;$ $(V_{DM} = 67\% \text{ of } V_{DRM}); \text{ exponential}$ waveform-5- | | | , | 0.25 | 0.4 | - | V |
| $\frac{dV_D}{dt} rate of rise of off-state}_{voltage} V_{DM} = 402 V; T_j = 125 °C; R_{GT1} = 1 k\Omega; \\ (V_{DM} = 67\% of V_{DRM}); exponential}_{waveform} - 5 - 5$ | I _D | off-state current | V _D = 600 V; T _j = 125 °C | - | 0.1 | 0.5 | mA |
| voltage (V _{DM} = 67% of V _{DRM}); exponential waveform | Dynamic ch | aracteristics | · · · · · · · · · · · · · · · · · · · | I | | 1 | |
| gate-controlled turn-on $I_{TM} = 6 A$; $V_D = 600 V$; $I_G = 0.1 A$; $dI_G/$ - 2 - | dV _D /dt | | $(V_{DM} = 67\% \text{ of } V_{DRM}); \text{ exponential}$ | - | 5 | - | V/µs |
| time $dt = 5 A/\mu s$ | t _{gt} | - | | - | 2 | - | μs |



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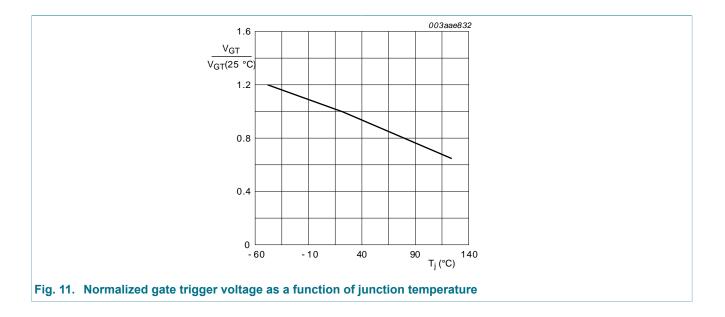




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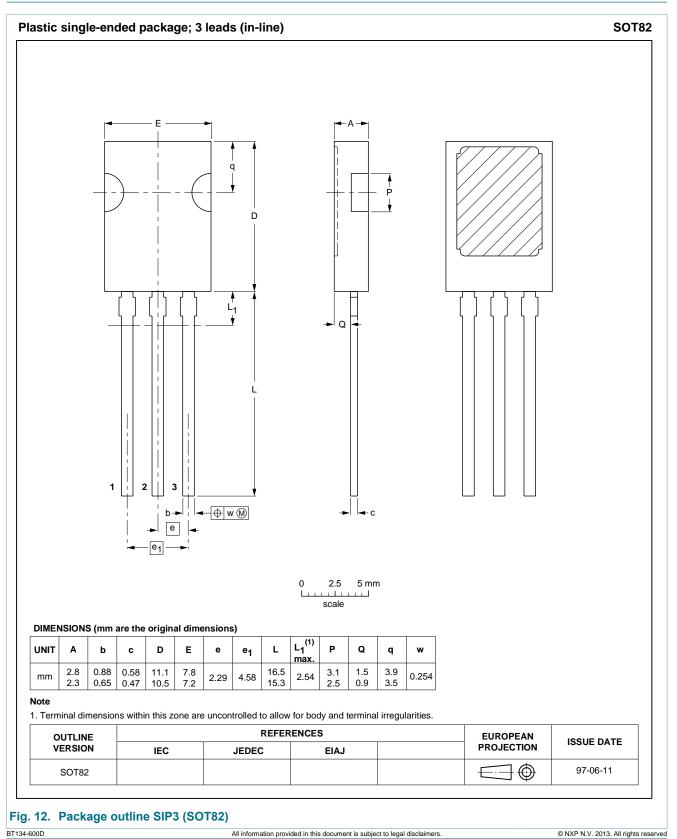


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10. Package outline





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BT134-600D

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11. Legal information

11.1 Data sheet status

| Document status [1][2] | Product status [3] | Definition |
|--------------------------------------|-----------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
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11/13



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BT134-600D

4Q Triac

12. Contents

| 1 | General description | 1 |
|-----------------------|--|---------------|
| 2 | Features and benefits | 1 |
| 3 | Applications | 1 |
| 4 | Quick reference data | 1 |
| 5 | Pinning information | 2 |
| 6 | Ordering information | 2 |
| 7 | Limiting values | 3 |
| ~ | | • |
| 8 | Thermal characteristics | 6 |
| 8 9 | Characteristics | |
| - | | 7 |
| 9 | Characteristics | 7 10 |
| 9 10 | Characteristics Package outline | 7 10 11 |
| 9 10 11 | Characteristics Package outline Legal information | 7 |
| 9 10 11 11.1 | Characteristics Package outline Legal information Data sheet status | 7 |

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