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NXP Semiconductors/Freescale Semiconductor, Inc. BT134-600D,127

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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 <sub>DRM</sub>	repetitive peak off- state voltage		-	-	600	V
I <sub>TSM</sub>	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 <sub>T(RMS)</sub>	RMS on-state current	full sine wave; T <sub>mb</sub> ≤ 107 °C; <u>Fig. 1;</u> <u>Fig. 2; Fig. 3</u>	-	-	4	A
Static charact	eristics					
I <sub>GT</sub>	gate trigger current	V <sub>D</sub> = 12 V; I <sub>T</sub> = 0.1 A; T2+ G+; T <sub>j</sub> = 25 °C; <u>Fig. 7</u>	-	2	5	mA







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Symbol	Parameter	Conditions	Min	Тур	Max	Unit
		V <sub>D</sub> = 12 V; I <sub>T</sub> = 0.1 A; T2+ G-; T <sub>j</sub> = 25 °C; <u>Fig. 7</u>	-	2.5	5	mA
		V <sub>D</sub> = 12 V; I <sub>T</sub> = 0.1 A; T2- G-; T <sub>j</sub> = 25 °C; <u>Fig. 7</u>	-	2.5	5	mA
		V <sub>D</sub> = 12 V; I <sub>T</sub> = 0.1 A; T2- G+; T <sub>j</sub> = 25 °C; <u>Fig. 7</u>	-	5	10	mA
I <sub>H</sub>	holding current	V <sub>D</sub> = 12 V; T <sub>j</sub> = 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



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### 7. Limiting values

#### Table 4. Limiting values

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

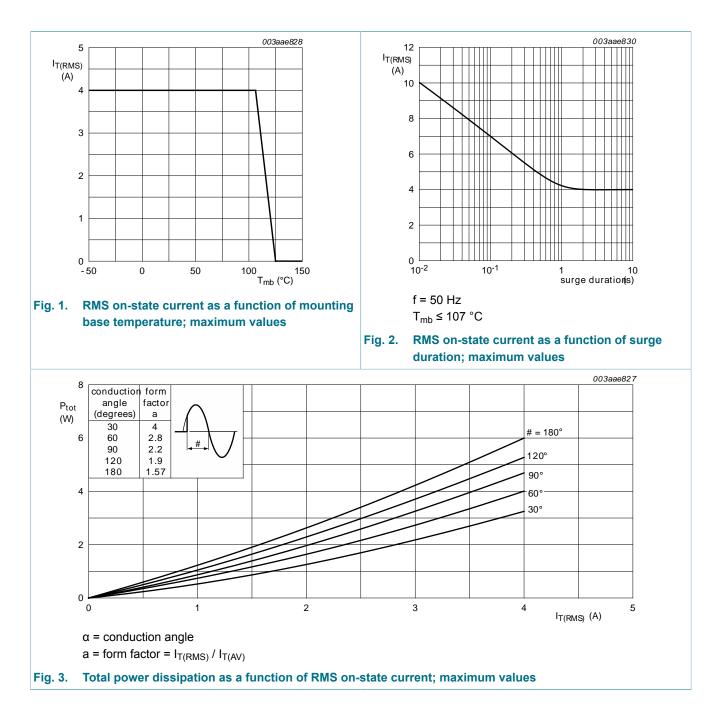
Symbol	Parameter	Conditions	Min	Max	Unit
V <sub>DRM</sub>	repetitive peak off-state voltage		-	600	V
I <sub>T(RMS)</sub>	RMS on-state current	full sine wave; $T_{mb} \le 107 \text{ °C}$ ; Fig. 1; Fig. 2; Fig. 3	-	4	A
I <sub>TSM</sub>	non-repetitive peak on-state current	full sine wave; $T_{j(init)} = 25 \text{ °C};$ $t_p = 20 \text{ ms}; \frac{\text{Fig. 4}}{25}; \frac{1}{25}; \frac{1}{2$	-	25	A
		full sine wave; $T_{j(init)} = 25 \text{ °C};$ $t_p = 16.7 \text{ ms}$	-	27	A
l <sup>2</sup> t	I2t for fusing	t <sub>p</sub> = 10 ms; SIN	-	3.1	A <sup>2</sup> s
dI <sub>T</sub> /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 <sub>GM</sub>	peak gate current		-	2	А
P <sub>GM</sub>	peak gate power		-	5	W
P <sub>G(AV)</sub>	average gate power	over any 20 ms period	-	0.5	W
T <sub>stg</sub>	storage temperature		-40	150	°C
Tj	junction temperature		-	125	°C



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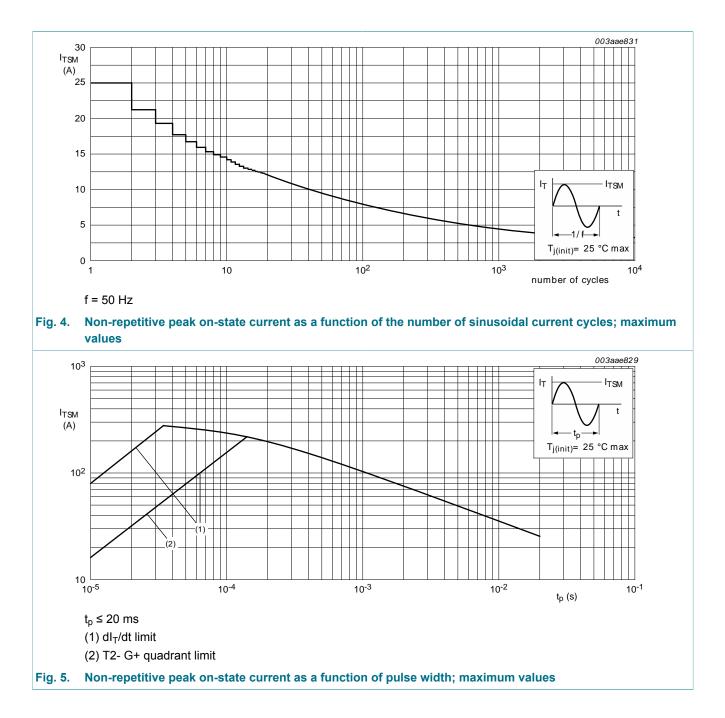
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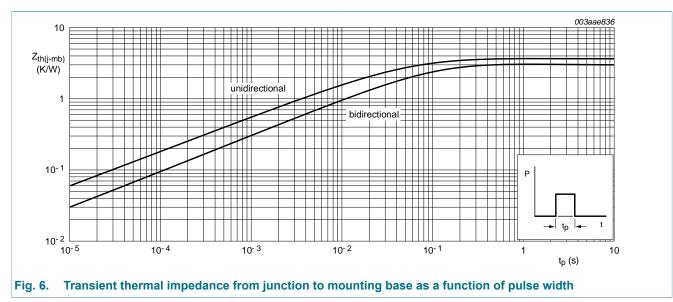


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### 8. Thermal characteristics

Table 5. The	ermal characteristics					
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
R <sub>th(j-mb)</sub>	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 <sub>th(j-a)</sub>	thermal resistance from junction to ambient	in free air	-	100	-	K/W





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### 9. Characteristics

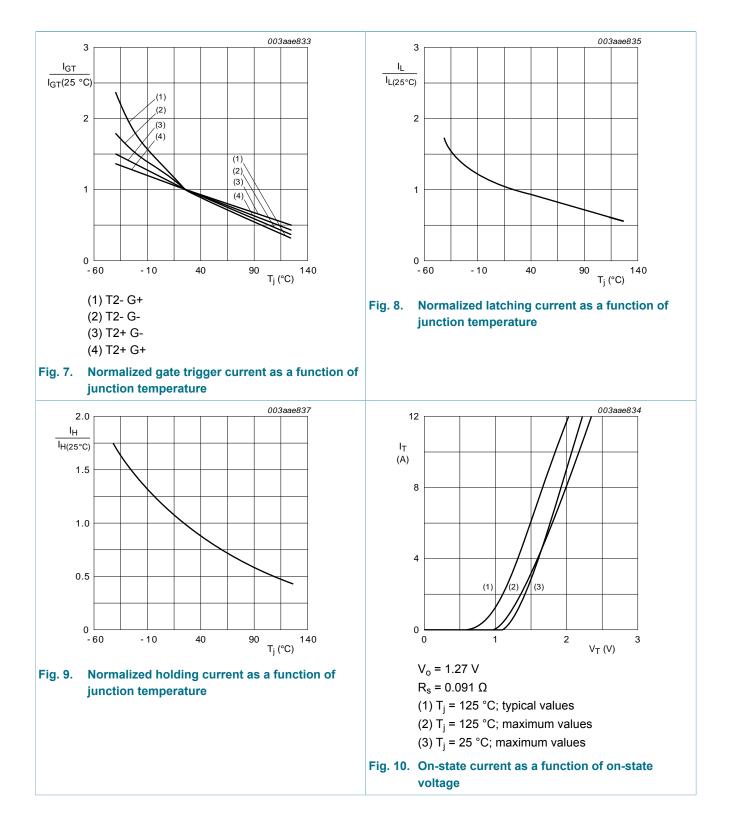
	Symbol	Parameter	Conditions	Min	Тур	Max	Unit
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	Static chara	acteristics	1	I			
$ \begin{array}{ c c c c c c } & I_{1} = 25 \ ^{\circ} C; \ \ Fig. 7 \\ \hline V_{D} = 12 \ V; \ I_{T} = 0.1 \ A; \ T2 - G; \\ T_{1} = 25 \ ^{\circ} C; \ \ Fig. 7 \\ \hline 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 <sub>GT</sub>	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 <sub>H</sub>	holding current	V <sub>D</sub> = 12 V; T <sub>j</sub> = 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 <sub>T</sub>	on-state voltage	I <sub>T</sub> = 5 A; T <sub>j</sub> = 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 <sub>GT</sub>	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 <sub>D</sub>	off-state current	V <sub>D</sub> = 600 V; T <sub>j</sub> = 125 °C	-	0.1	0.5	mA
voltage (V <sub>DM</sub> = 67% of V <sub>DRM</sub> ); 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 <sub>D</sub> /dt		$(V_{DM} = 67\% \text{ of } V_{DRM}); \text{ exponential}$	-	5	-	V/µs
time $dt = 5 A/\mu s$	t <sub>gt</sub>	-		-	2	-	μs



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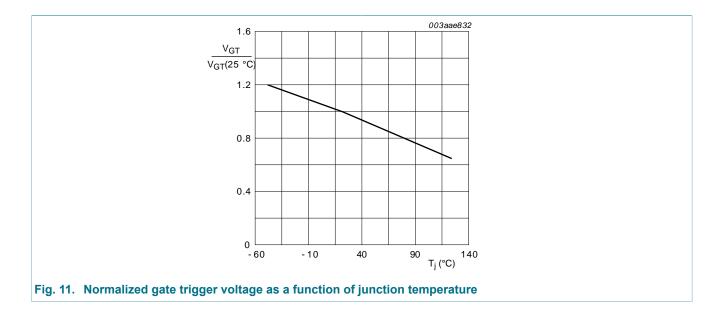




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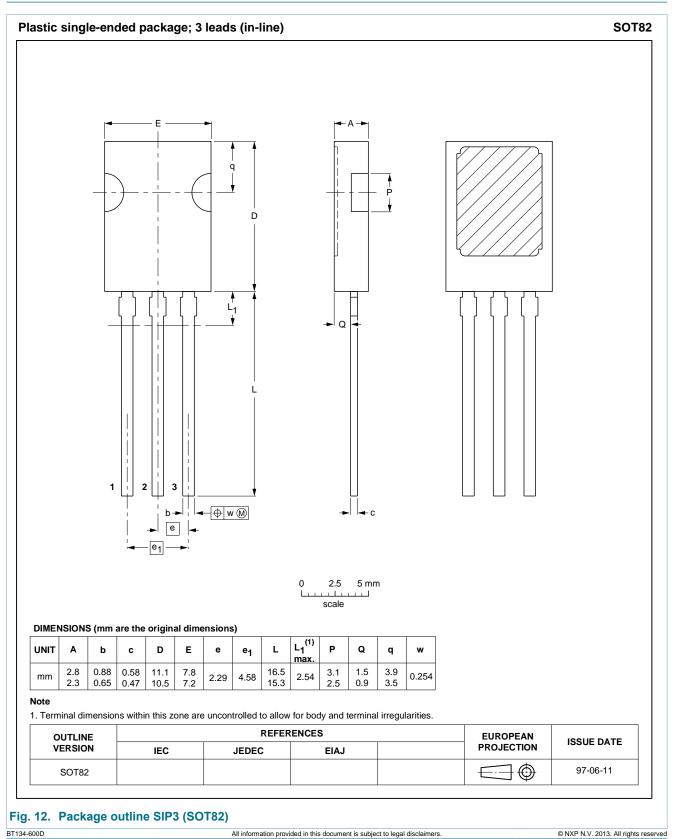


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### 10. Package outline





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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.
Product [short] data sheet	Production	This document contains the product specification.

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