

60 V, 2 A NPN/PNP low VCEsat (BISS) double transistor

4 February 2016

Product data sheet

1. General description

NPN/PNP low V_{CEsat} Breakthrough In Small Signal (BISS) double transistor in a leadless medium power DFN2020D-6 (SOT1118D) Surface-Mounted Device (SMD) plastic package with visible and solderable side pads.

NPN/NPN complement: PBSS4260PANS

PNP/PNP complement: PBSS5260PAPS

2. Features and benefits

- Very low collector-emitter saturation voltage V_{CEsat}
- High collector current capability I_C and I_{CM}
- High collector current gain h_{FE} at high I_C
- Reduced Printed-Circuit Board (PCB) requirements
- Exposed heat sink for excellent thermal and electrical conductivity
- High energy efficiency due to less heat generation
- Suitable for Automatic Optical Inspection (AOI) of solder joints
- AEC-Q101 qualified

3. Applications

- Load switch
- Battery-driven devices
- Power management
- Charging circuits
- LED lighting
- Power switches (e.g. motors, fans)

4. Quick reference data

| Table 1. Qui | ck reference data | | | | | |
|------------------|------------------------------|-------------------------------------|-----|-----|-----|------|
| Symbol | Parameter | Conditions | Min | Тур | Мах | Unit |
| Per transistor | , for the PNP transistor | with negative polarity | | | | |
| V _{CEO} | collector-emitter voltage | open base | - | - | 60 | V |
| I _C | collector current | | - | - | 2 | А |
| I _{CM} | peak collector current | single pulse; t _p ≤ 1 ms | - | - | 3 | А |

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| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|--------------------|--|---|-----|-----|-----|------|
| TR1 (NPN) | | | | | | |
| R _{CEsat} | collector-emitter saturation resistance | $\label{eq:lc} \begin{array}{l} I_C = 1 \text{ A}; \ I_B = 50 \text{ mA}; \ \text{pulsed}; \\ t_p \leq 300 \ \mu\text{s}; \ \delta \leq 0.02 \ \ ; \ T_{amb} = 25 \ ^\circ\text{C} \end{array}$ | - | - | 200 | mΩ |
| TR2 (PNP) | | | | | | |
| R _{CEsat} | collector-emitter saturation resistance | I_{C} = -1 A; I_{B} = -50 mA; pulsed; t_{p} ≤ 300 µs; δ ≤ 0.02; T_{amb} = 25 °C | - | - | 310 | mΩ |

5. Pinning information

| Table 2. | Pinning | information | | |
|----------|---------|---------------|--|----------------|
| Pin | Symbol | Description | Simplified outline | Graphic symbol |
| 1 | E1 | emitter TR1 | 6 5 4 | C1 B2 E2 |
| 2 | B1 | base TR1 | | |
| 3 | C2 | collector TR2 | | |
| 4 | E2 | emitter TR2 | | |
| 5 | B2 | base TR2 | 1 2 3 | E1 B1 C2 |
| 6 | C1 | collector TR1 | Transparent top view DFN2020D-6 (SOT1118D) | sym139 |
| 7 | C1 | collector TR1 | DI 142020D-0 (SOTTIOD) | |
| 8 | C2 | collector TR2 | | |

6. Ordering information

| Table 3. Ordering in | formation | | |
|----------------------|------------|---|----------|
| Type number Package | | | |
| | Name | Description | Version |
| PBSS4260PANPS | DFN2020D-6 | DFN2020D-6: plastic, thermally enhanced ultra thin and small outline package; no leads; 6 terminals; body 2 x 2 x 0.65 mm | SOT1118D |

7. Marking

| | Table 4. Marking codes | |
|-------------|------------------------|--------------|
| Type number | | Marking code |
| | PBSS4260PANPS | 3D |

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8. Limiting values

Table 5. Limiting values

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

| Symbol | Parameter | Conditions | | Min | Мах | Unit |
|------------------|----------------------------------|-------------------------------------|-----|-----|-----|------|
| Per transis | tor, for the PNP transistor with | negative polarity | | | | |
| V _{CBO} | collector-base voltage | open emitter | | - | 60 | V |
| V _{CEO} | collector-emitter voltage | open base | | - | 60 | V |
| V _{EBO} | emitter-base voltage | open collector | | - | 7 | V |
| I _C | collector current | | | - | 2 | А |
| I _{CM} | peak collector current | single pulse; t _p ≤ 1 ms | | - | 3 | А |
| I _B | base current | | | - | 0.3 | А |
| I _{BM} | peak base current | single pulse; t _p ≤ 1 ms | | - | 1 | А |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [1] | - | 370 | mW |
| | | | [2] | - | 570 | mW |
| | | | [3] | - | 530 | mW |
| | | | [4] | - | 700 | mW |
| Per device | | | | | | _ |
| P _{tot} | total power dissipation | T _{amb} ≤ 25 °C | [1] | - | 510 | mW |
| | | | [2] | - | 780 | mW |
| | | | [3] | - | 730 | mW |
| | | | [4] | - | 960 | mW |
| Тj | junction temperature | | | - | 150 | °C |
| T _{amb} | ambient temperature | | | -55 | 150 | °C |
| T _{stg} | storage temperature | | | -65 | 150 | °C |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

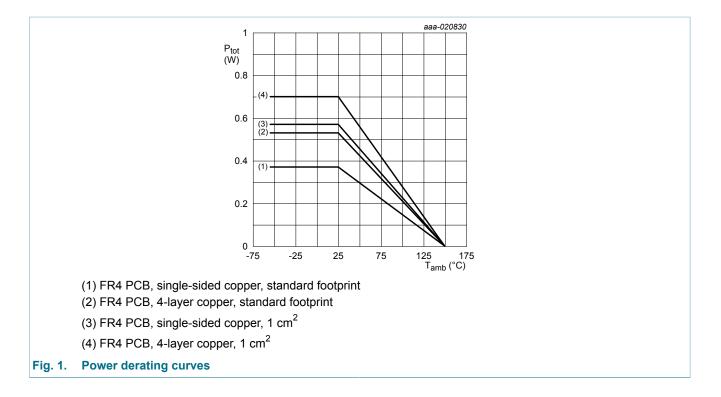
[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single sided copper, tin-plated; mounting pad for collector 1 cm².

[3] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated and standard footprint.

[4] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated; mounting pad for collector 1 cm².

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9. Thermal characteristics

| Symbol | Parameter | Conditions | | Min | Тур | Мах | Unit |
|----------------------|-----------------------------|-------------|-----|-----|-----|-----|------|
| Per transist | tor | | | | | | |
| R _{th(j-a)} | thermal resistance | in free air | [1] | - | - | 338 | K/W |
| | from junction to ambient | | [2] | - | - | 219 | K/W |
| | ampient | | [3] | - | - | 236 | K/W |
| | | | [4] | - | - | 179 | K/W |
| Per device | L | | , i | | | | |
| R _{th(j-a)} | thermal resistance | in free air | [1] | - | - | 246 | K/W |
| | from junction to ambient | | [2] | - | - | 161 | K/W |
| | ampient | | [3] | - | - | 172 | K/W |
| | | | [4] | - | - | 131 | K/W |

[1] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated and standard footprint.

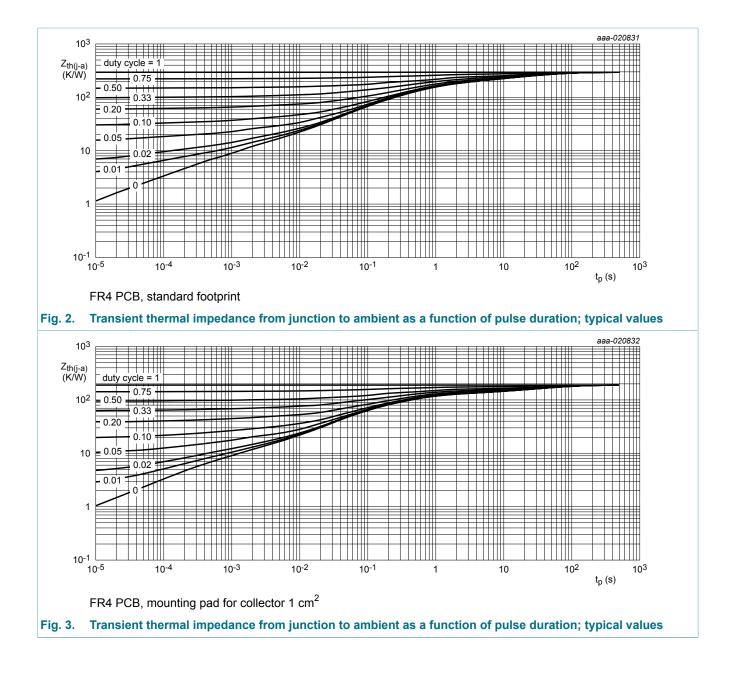
[2] Device mounted on an FR4 Printed-Circuit Board (PCB), single-sided copper, tin-plated, mounting pad for collector 1 cm².

[3] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated and standard footprint.
 [4] Device mounted on an FR4 Printed-Circuit Board (PCB), 4-layer copper, tin-plated, mounting pad for

collector 1 cm².

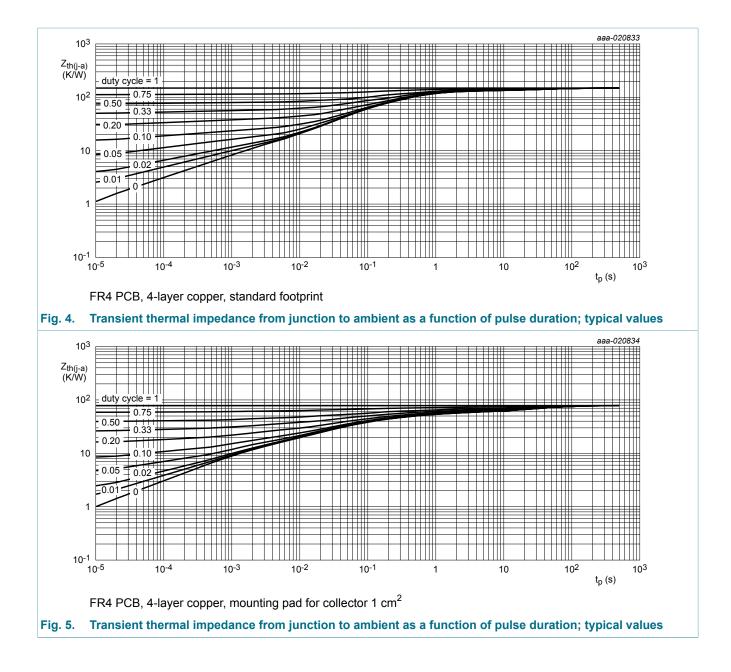
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10. Characteristics

| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|--------------------|---|---|-----|------|-----|------|
| TR1 (NPN) | | | I | | | |
| I _{CBO} | collector-base cut-off | V_{CB} = 48 V; I _E = 0 A; T _{amb} = 25 °C | - | - | 100 | nA |
| | current | V_{CB} = 48 V; I _E = 0 A; T _j = 150 °C | - | - | 50 | μA |
| I _{CES} | collector-emitter cut-off current | V_{CE} = 48 V; V_{BE} = 0 V; T_{amb} = 25 °C | - | - | 100 | nA |
| ЕВО | emitter-base cut-off current | V_{EB} = 5 V; I _C = 0 A; T _{amb} = 25 °C | - | - | 100 | nA |
| h _{FE} | DC current gain | $ \begin{aligned} &V_{CE} = 2 \; V; \; I_{C} = 100 \; \text{mA}; \; pulsed; \\ &t_{p} \leq 300 \; \mu s; \; \delta \leq 0.02; \; T_{amb} = 25 \; ^{\circ}C \end{aligned} $ | 250 | 400 | - | |
| | | $\label{eq:VcE} \begin{array}{l} V_{CE} = 2 \; V; \; I_{C} = 500 \; mA; \; pulsed; \\ t_{p} \leq 300 \; \mus; \; \delta \leq 0.02; \; T_{amb} = 25 \; ^{\circ}C \end{array}$ | 210 | 330 | - | |
| | | $\label{eq:Vce} \begin{split} V_{CE} &= 2 \; V; \; I_C = 1 \; A; \; pulsed; \; t_p \leq 300 \; \mu s; \\ \delta \leq 0.02; \; T_{amb} = 25 \; ^\circ C \end{split}$ | 120 | 190 | - | |
| | | V_{CE} = 2 V; I_{C} = 2 A; pulsed; t_{p} \leq 300 $\mu s;$ δ \leq 0.02 | 50 | 80 | - | |
| V _{CEsat} | collector-emitter saturation voltage | $\begin{split} I_{C} &= 0.5 \text{ A}; I_{B} = 50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta &\leq 0.02 ; T_{amb} = 25 ^{\circ}\text{C} \end{split}$ | - | 70 | 100 | mV |
| | | $\begin{split} I_{C} &= 1 \text{ A}; I_{B} = 50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta &\leq 0.02 ; T_{amb} = 25 ^{\circ}\text{C} \end{split}$ | - | 140 | 200 | mV |
| | | $\begin{split} I_C &= 2 \text{ A}; I_B = 200 \text{ mA}; \text{ pulsed}; \\ t_p &\leq 300 \mu\text{s}; \delta &\leq 0.02 ; T_{amb} = 25 ^\circ\text{C} \end{split}$ | - | 260 | 350 | mV |
| R _{CEsat} | collector-emitter saturation resistance | $\begin{split} I_C = 1 \text{ A; } I_B = 50 \text{ mA; pulsed;} \\ t_p \leq 300 \mu\text{s; } \delta \leq 0.02 ; T_{\text{amb}} = 25 ^\circ\text{C} \end{split}$ | - | - | 200 | mΩ |
| V _{BEsat} | base-emitter saturation voltage | $\begin{split} I_{C} &= 0.5 \text{ A}; I_{B} = 50 \text{ mA}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta \leq 0.02 ; T_{\text{amb}} = 25 ^{\circ}\text{C} \end{split}$ | - | 0.92 | 1 | V |
| | | I_C = 1 A; I_B = 50 mA; pulsed; $t_p \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C | - | 0.96 | 1.1 | V |
| | | I_C = 2 A; I_B = 200 mA; pulsed; $t_p \le 300 \ \mu s$; δ ≤ 0.02; T_{amb} = 25 °C | - | 1.18 | 1.3 | V |
| V _{BE} | base-emitter voltage | $\begin{split} I_{C} &= 0.5 \text{ A}; \text{ V}_{CE} = 2 \text{ V}; \text{ pulsed}; \\ t_{p} &\leq 300 \mu\text{s}; \delta \leq 0.02; T_{\text{amb}} = 25 ^{\circ}\text{C} \end{split}$ | - | 0.77 | 0.9 | V |
| t _d | delay time | I _C = 1 A; I _{Bon} = 50 mA; I _{Boff} = -50 mA; | - | 10 | - | ns |
| t _r | rise time | T _{amb} = 25 °C | - | 140 | - | ns |
| on | turn-on time | | - | 150 | - | ns |
| s | storage time | | - | 445 | - | ns |

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| Symbol | Parameter | Conditions | Min | Тур | Мах | Unit |
|--------------------|---|---|-----|-------|-------|------|
| t _f | fall time | | - | 180 | - | ns |
| t _{off} | turn-off time | | - | 625 | - | ns |
| f _T | transition frequency | V_{CE} = 10 V; I _C = 500 mA; f = 100 MHz; T _{amb} = 25 °C | - | 140 | - | MHz |
| C _c | collector capacitance | V _{CB} = 10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C | - | 6.5 | - | pF |
| TR2 (PNP) | | | | | 1 | |
| I _{CBO} | collector-base cut-off | V_{CB} = -48 V; I _E = 0 A; T _{amb} = 25 °C | - | - | -100 | nA |
| | current | | - | - | -50 | μA |
| I _{CES} | collector-emitter cut-off current | V_{CE} = -48 V; V_{BE} = 0 V; T_{amb} = 25 °C | - | - | -100 | nA |
| ЕВО | emitter-base cut-off current | V_{EB} = -5 V; I _C = 0 A; T _{amb} = 25 °C | - | - | -100 | nA |
| h _{FE} | DC current gain | V_{CE} = -2 V; I _C = -100 mA; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C | 170 | 250 | - | |
| | | V _{CE} = -2 V; I _C = -500 mA; pulsed; t _p ≤ 300 µs; δ ≤ 0.02; T _{amb} = 25 °C | 140 | 200 | - | |
| | | V_{CE} = -2 V; I _C = -1 A; pulsed; t _p ≤ 300 µs; δ ≤ 0.02; T _{amb} = 25 °C | 110 | 150 | - | |
| | | V _{CE} = -2 V; I _C = -2 A; pulsed; t _p ≤ 300 µs; δ ≤ 0.02; T _{amb} = 25 °C | 50 | 75 | - | |
| V _{CEsat} | collector-emitter saturation voltage | I_{C} = -0.5 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C | - | -100 | -140 | mV |
| | | I_C = -1 A; I_B = -50 mA; pulsed; t_p ≤ 300 μs; δ ≤ 0.02; T_{amb} = 25 °C | - | -200 | -310 | mV |
| | | I _C = -2 A; I _B = -200 mA; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C | - | -350 | -500 | mV |
| R _{CEsat} | collector-emitter saturation resistance | I_{C} = -1 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C | - | - | 310 | mΩ |
| V _{BEsat} | base-emitter saturation voltage | I_{C} = -0.5 A; I_{B} = -50 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02 ; T_{amb} = 25 °C | - | -0.89 | -1 | V |
| | | I_C = -1 A; I_B = -50 mA; pulsed; t_p ≤ 300 μs; δ ≤ 0.02; T_{amb} = 25 °C | - | -0.93 | -1.1 | V |
| | | I_{C} = -2 A; I_{B} = -200 mA; pulsed; $t_{p} \le 300 \ \mu$ s; δ ≤ 0.02; T_{amb} = 25 °C | - | -1.14 | -1.25 | V |
| V _{BE} | base-emitter voltage | I_C = -0.5 A; V _{CE} = -2 V; pulsed; t _p ≤ 300 μs; δ ≤ 0.02; T _{amb} = 25 °C | - | -0.77 | -0.9 | V |
| t _d | delay time | I_{C} = -1 A; I_{Bon} = -50 mA; I_{Boff} = 50 mA; | - | 10 | - | ns |
| t _r | rise time | T _{amb} = 25 °C | _ | 80 | - | ns |

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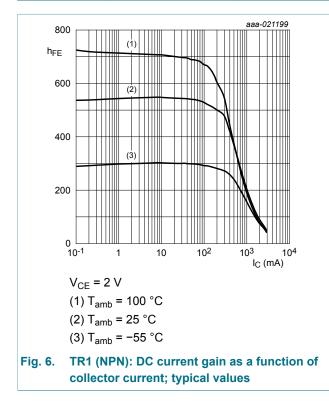
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| Symbol | Parameter | Conditions | Min | Тур | Max | Unit |
|------------------|-----------------------|---|-------|-----|-----|------|
| t _{on} | turn-on time | | - | 90 | - | ns |
| t _s | storage time | - | - | 195 | - | ns |
| t _f | fall time | - | - | 75 | - | ns |
| t _{off} | turn-off time | - | - | 270 | - | ns |
| f _T | transition frequency | V _{CE} = -10 V; I _C = -500 mA; f = 100 MHz; T _{amb} = 25 °C | - | 100 | - | MHz |
| C _c | collector capacitance | V _{CB} = -10 V; I _E = 0 A; i _e = 0 A; f = 1 MHz; T _{amb} = 25 °C | - | 16 | - | pF |



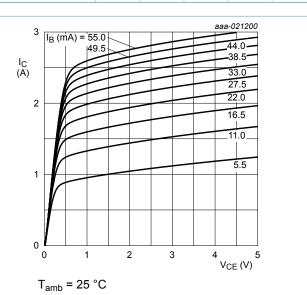
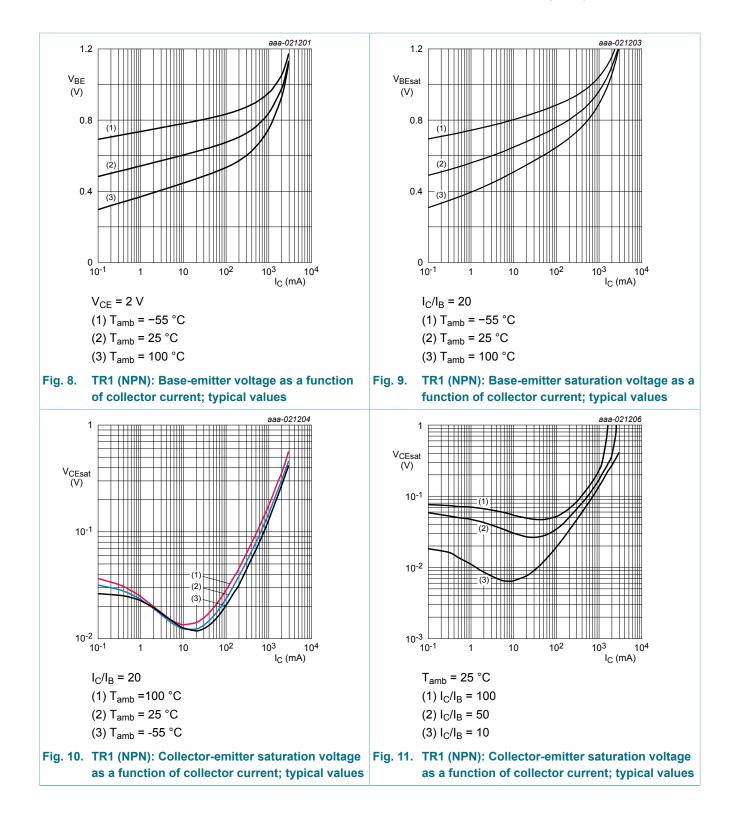


Fig. 7. TR1 (NPN): Collector current as a function of collector-emitter voltage; typical values

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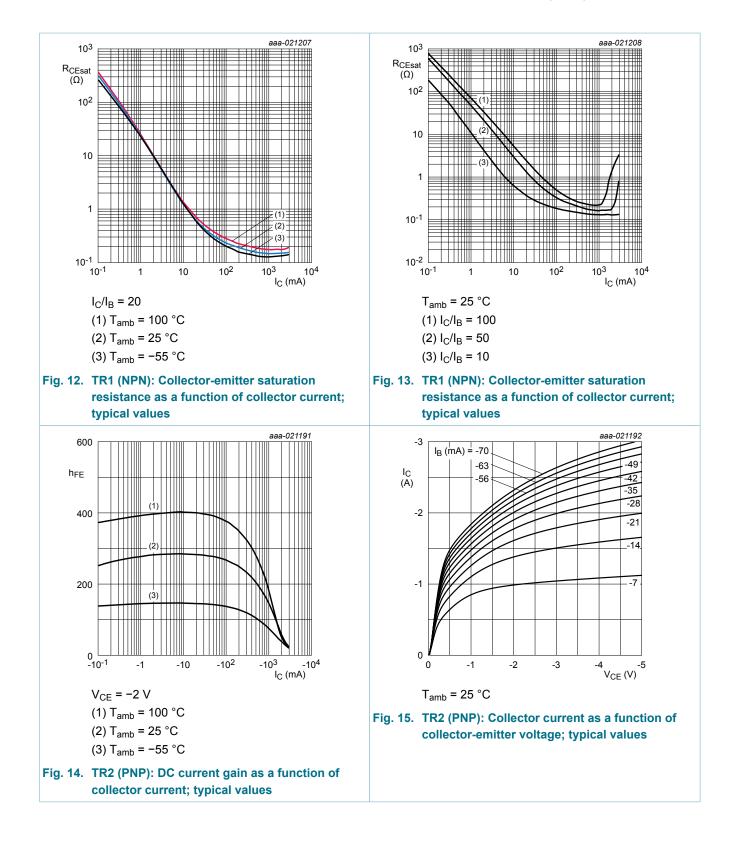


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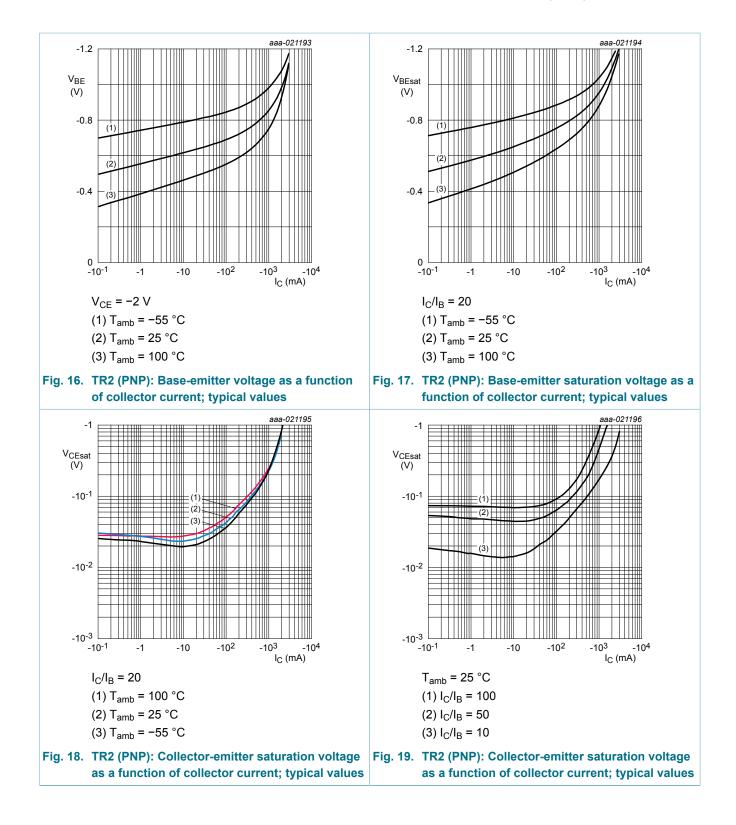
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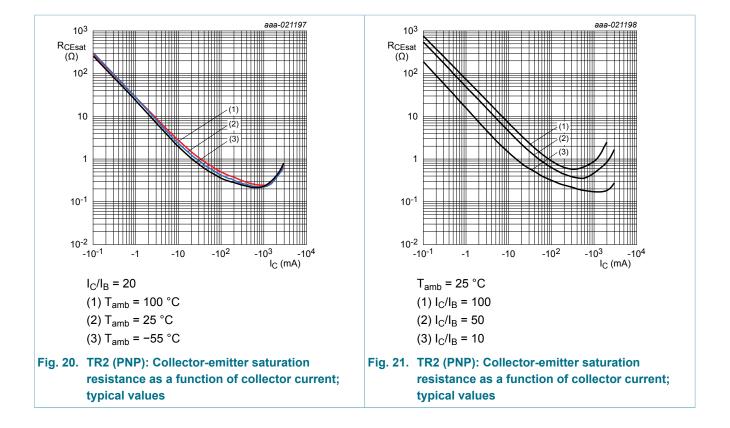


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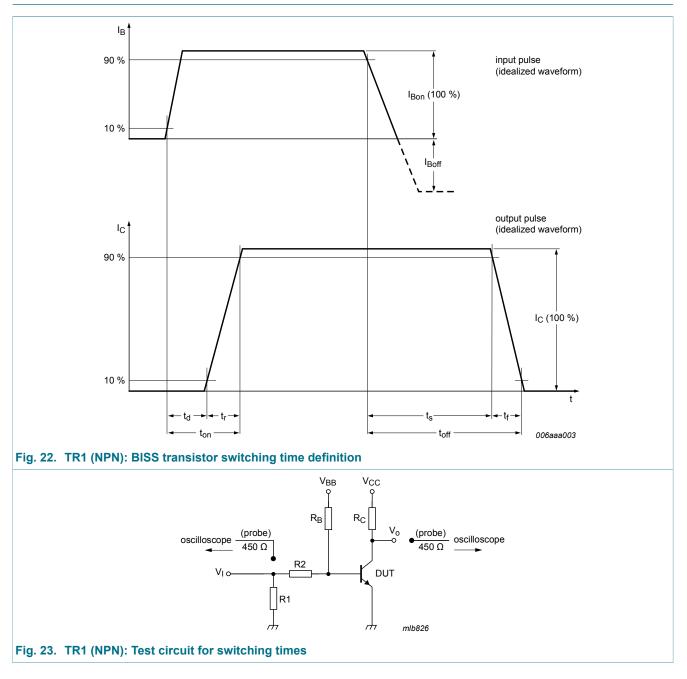


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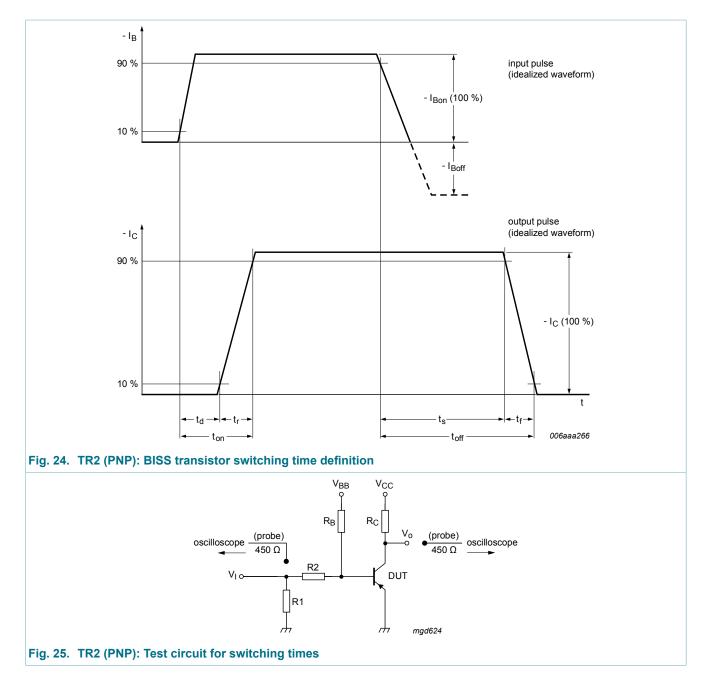
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11. Test information



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11.1 Quality information

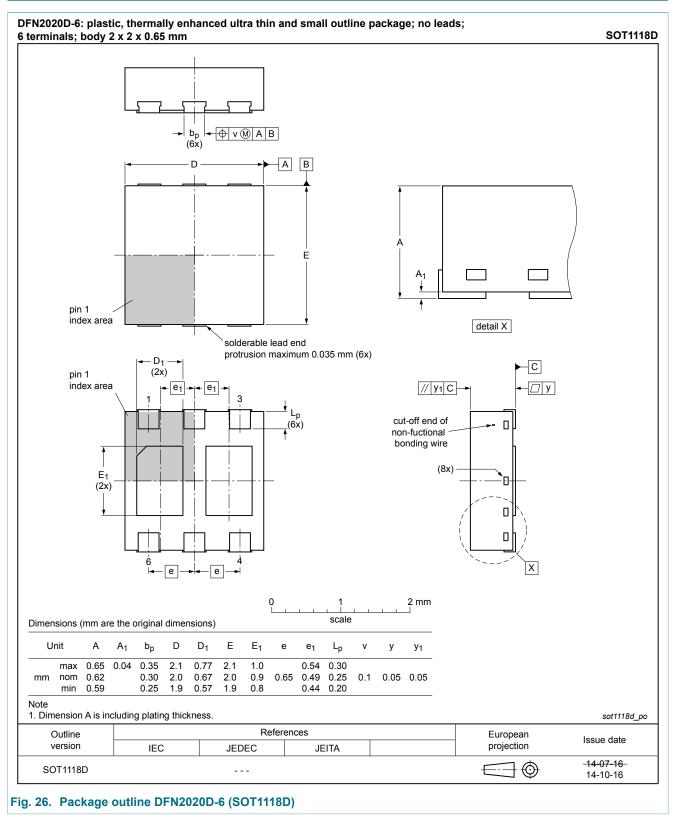
This product has been qualified in accordance with the Automotive Electronics Council (AEC) standard *Q101* - *Stress test qualification for discrete semiconductors*, and is suitable for use in automotive applications.

| PBSS4260PANPS |
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12. Package outline



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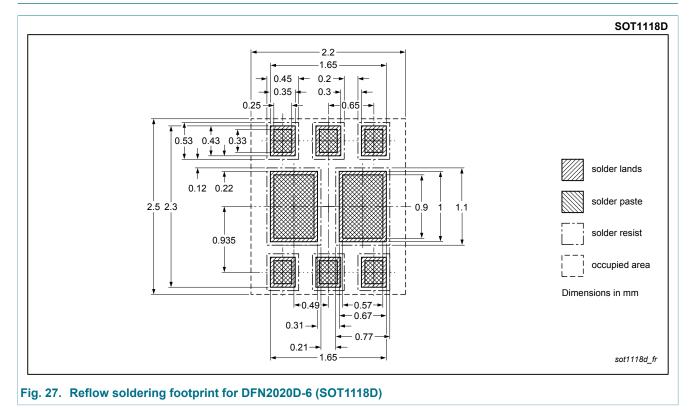
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13. Soldering



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14. Revision history

| Table 8. Revision history | | | | | | | |
|---------------------------|--------------|--------------------|---------------|------------|--|--|--|
| Data sheet ID | Release date | Data sheet status | Change notice | Supersedes | | | |
| PBSS4260PANPS v.1 | 20160204 | Product data sheet | - | - | | | |

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15. Legal information

15.1 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. |
| Product [short] data sheet | Production | This document contains the product specification. |

 Please consult the most recently issued document before initiating or completing a design.

[2] The term 'short data sheet' is explained in section "Definitions".

[3] The product status of device(s) described in this document may have changed since this document was published and may differ in case of multiple devices. The latest product status information is available on the Internet at URL <u>http://www.nexperia.com</u>.

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4 February 2016

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60 V, 2 A NPN/PNP low VCEsat (BISS) double transistor

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