



# BC807W series

45 V, 500 mA PNP general-purpose transistors

Rev. 7 — 3 July 2018

Product data sheet

## 1 Product profile

### 1.1 General description

PNP general-purpose transistors in a very small SOT323 (SC-70) Surface-Mounted Device (SMD) plastic package.

Table 1. Product overview

| Type number | Package  |       |       | NPN complement |
|-------------|----------|-------|-------|----------------|
|             | Nexperia | JEDEC | JEITA |                |
| BC807W      | SOT323   | -     | SC-70 | BC817W         |
| BC807-16W   |          |       |       | BC817-16W      |
| BC807-25W   |          |       |       | BC817-25W      |
| BC807-40W   |          |       |       | BC817-40W      |

### 1.2 Features and benefits

- High current
- Three current gain selections
- AEC-Q101 qualified

### 1.3 Applications

- General-purpose switching and amplification

1.4 Quick reference data

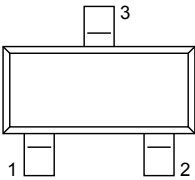
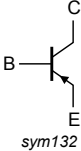
Table 2. Quick reference data  
*T<sub>amb</sub> = 25 °C unless otherwise specified.*

| Symbol           | Parameter                 | Conditions                                       |     | Min | Typ | Max  | Unit |
|------------------|---------------------------|--------------------------------------------------|-----|-----|-----|------|------|
| V <sub>CEO</sub> | collector-emitter voltage | open base                                        |     | -   | -   | -45  | V    |
| I <sub>C</sub>   | collector current         |                                                  |     | -   | -   | -500 | mA   |
| I <sub>CM</sub>  | peak collector current    | single pulse; t <sub>p</sub> ≤ 1 ms              |     | -   | -   | -1   | A    |
| h <sub>FE</sub>  | DC current gain           | V <sub>CE</sub> = -1 V; I <sub>C</sub> = -100 mA |     |     |     |      |      |
|                  | BC807W                    |                                                  | [1] | 100 | -   | 600  |      |
|                  | BC807-16W                 |                                                  | [1] | 100 | -   | 250  |      |
|                  | BC807-25W                 |                                                  | [1] | 160 | -   | 400  |      |
|                  | BC807-40W                 |                                                  | [1] | 250 | -   | 600  |      |

[1] pulsed; t<sub>p</sub> ≤ 300 µs; δ ≤ 0.02

2 Pinning information

Table 3. Pinning

| Pin           | Symbol | Description | Simplified outline                                                                   | Graphic symbol                                                                        |
|---------------|--------|-------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <b>SOT323</b> |        |             |                                                                                      |                                                                                       |
| 1             | B      | base        |  |  |
| 2             | E      | emitter     |                                                                                      |                                                                                       |
| 3             | C      | collector   |                                                                                      |                                                                                       |

3 Ordering information

Table 4. Ordering information

| Type number | Package |                                          | Version |
|-------------|---------|------------------------------------------|---------|
|             | Name    | Description                              |         |
| BC807W      | SC-70   | Plastic surface-mounted package; 3 leads | SOT323  |
| BC807-16W   |         |                                          |         |
| BC807-25W   |         |                                          |         |
| BC807-40W   |         |                                          |         |

## 4 Marking

Table 5. Marking

| Type number | Marking code       |
|-------------|--------------------|
| BC807W      | <sup>[1]</sup> 5D% |
| BC807-16W   | <sup>[1]</sup> 5A% |
| BC807-25W   | <sup>[1]</sup> 5B% |
| BC807-40W   | <sup>[1]</sup> 5C% |

[1] % = placeholder for manufacturing site code

## 5 Limiting values

Table 6. Limiting values

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

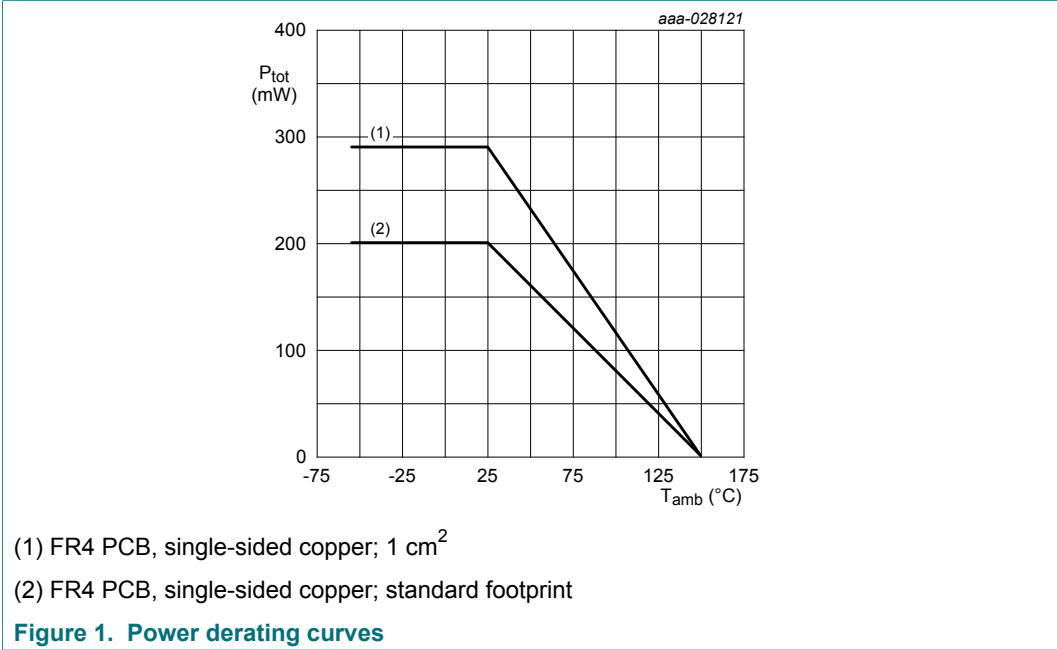
$T_{amb} = 25\text{ °C}$  unless otherwise specified.

| Symbol    | Parameter                 | Conditions                                                | Min | Max  | Unit |
|-----------|---------------------------|-----------------------------------------------------------|-----|------|------|
| $V_{CBO}$ | collector-base voltage    | open emitter                                              | -   | -50  | V    |
| $V_{CEO}$ | collector-emitter voltage | open base                                                 | -   | -45  | V    |
| $V_{EBO}$ | emitter-base voltage      | open collector                                            | -   | -5   | V    |
| $I_C$     | collector current         |                                                           | -   | -500 | mA   |
| $I_{CM}$  | peak collector current    | single pulse; $t_p \leq 1\text{ ms}$                      | -   | -1   | A    |
| $I_{BM}$  | peak base current         | single pulse; $t_p \leq 1\text{ ms}$                      | -   | -200 | mA   |
| $P_{tot}$ | total power dissipation   | $T_{amb} \leq 25\text{ °C}$ <sup>[1]</sup> <sup>[2]</sup> | -   | 200  | mW   |
|           |                           | <sup>[3]</sup> <sup>[2]</sup>                             | -   | 290  | mW   |
| $T_j$     | junction temperature      |                                                           | -   | 150  | °C   |
| $T_{amb}$ | ambient temperature       |                                                           | -65 | 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] Valid for all available selection groups.

[3] Device mounted on an FR4 Printed-Circuit-Board (PCB); single-sided copper; tin-plated; mounting pad for collector  $1\text{ cm}^2$ .



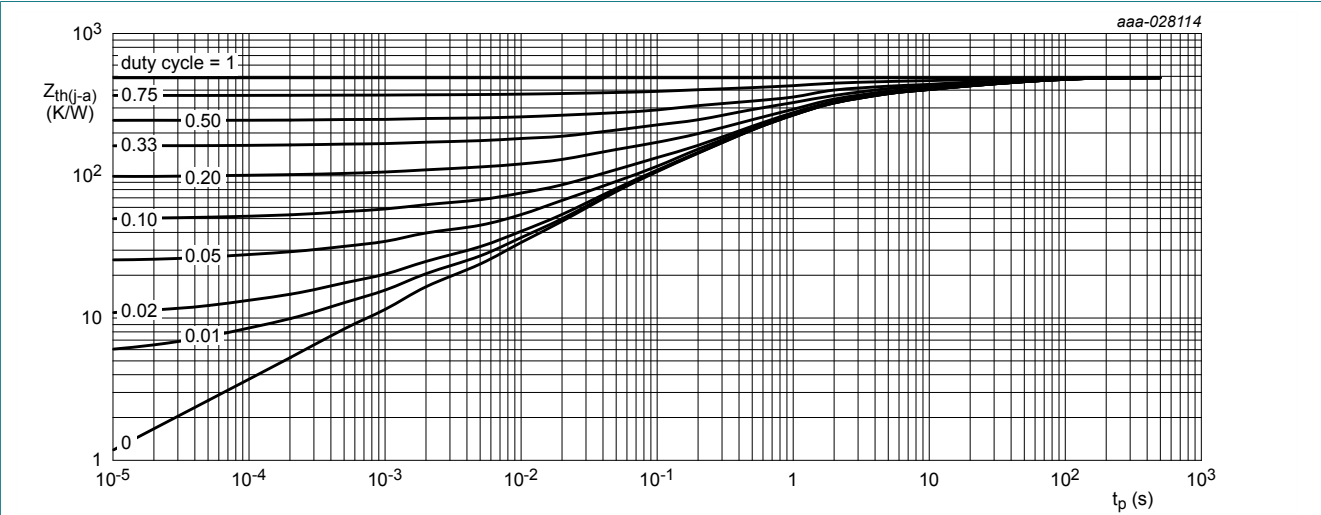
6 Thermal characteristics

Table 7. Thermal characteristics

T<sub>amb</sub> = 25 °C unless otherwise specified.

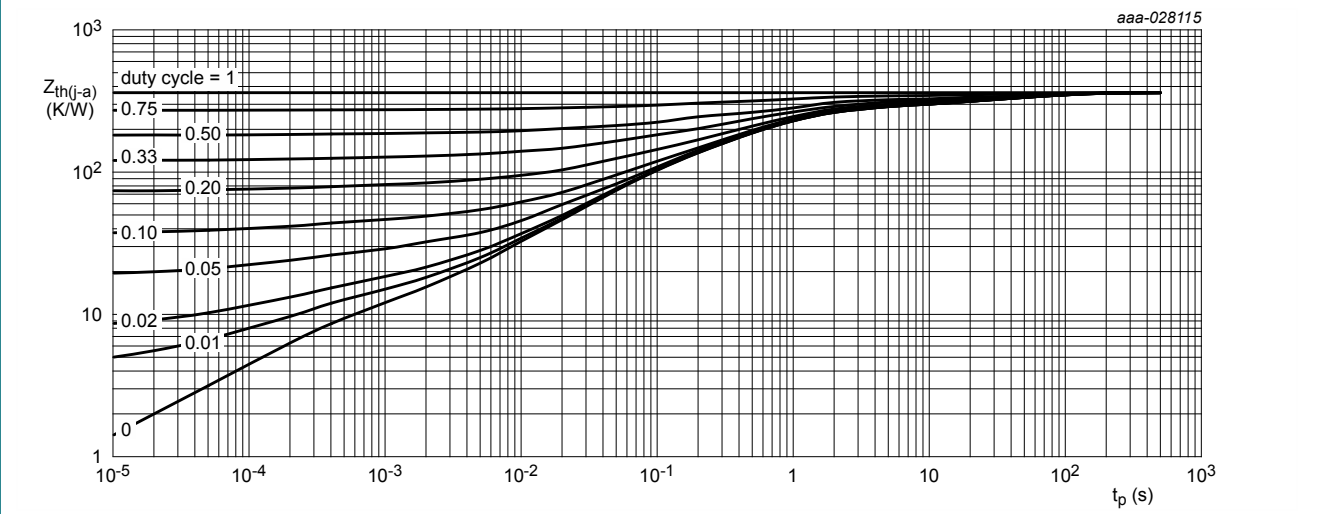
| Symbol               | Parameter                                   | Conditions  |         | Min | Typ | Max | Unit |
|----------------------|---------------------------------------------|-------------|---------|-----|-----|-----|------|
| R <sub>th(j-a)</sub> | thermal resistance from junction to ambient | in free air | [1] [2] | -   | -   | 625 | K/W  |
|                      |                                             |             | [3] [2] | -   | -   | 431 | K/W  |

- [1] Device mounted on an FR4 Printed-Circuit-Board (PCB); single-sided copper; tin-plated and standard footprint.  
[2] Valid for all available selection groups.  
[3] Device mounted on an FR4 Printed-Circuit-Board (PCB); single-sided copper; tin-plated; mounting pad for collector 1 cm<sup>2</sup>.



FR4 PCB; single-sided copper; tin-plated and standard footprint

Figure 2. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values



FR4 PCB; single-sided copper; tin-plated; mounting pad for collector 1 cm<sup>2</sup>

Figure 3. Transient thermal impedance from junction to ambient as a function of pulse duration; typical values

## 7 Characteristics

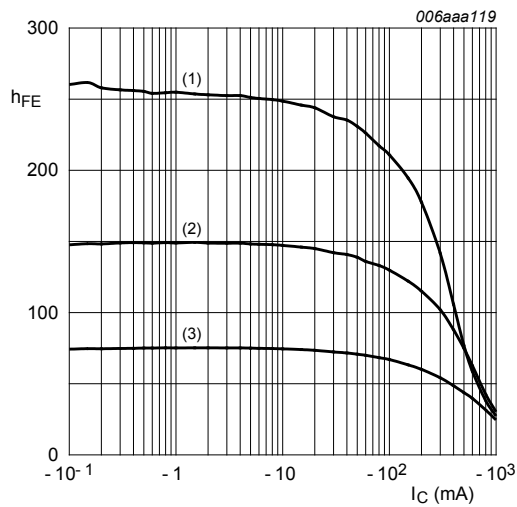
**Table 8. Characteristics**

$T_{amb} = 25\text{ °C}$  unless otherwise specified.

| Symbol        | Parameter                            | Conditions                                                              |         | Min | Typ | Max  | Unit          |
|---------------|--------------------------------------|-------------------------------------------------------------------------|---------|-----|-----|------|---------------|
| $V_{(BR)CBO}$ | collector-base breakdown voltage     | $I_C = -100\text{ }\mu\text{A}$ ; $I_E = 0\text{ A}$                    |         | -50 | -   | -    | V             |
| $V_{(BR)CEO}$ | collector-emitter breakdown voltage  | $I_C = -10\text{ mA}$ ; $I_B = 0\text{ A}$                              |         | -45 | -   | -    | V             |
| $V_{(BR)EBO}$ | emitter-base breakdown voltage       | $I_E = -100\text{ }\mu\text{A}$ ; $I_C = 0\text{ A}$                    |         | -5  | -   | -    | V             |
| $I_{CBO}$     | collector-base cut-off current       | $V_{CB} = -20\text{ V}$ ; $I_E = 0\text{ A}$                            |         | -   | -   | -100 | nA            |
|               |                                      | $V_{CB} = -20\text{ V}$ ; $I_E = 0\text{ A}$ ; $T_j = 150\text{ °C}$    |         | -   | -   | -5   | $\mu\text{A}$ |
| $I_{EBO}$     | emitter-base cut-off current         | $V_{EB} = -5\text{ V}$ ; $I_C = 0\text{ A}$                             |         | -   | -   | -100 | nA            |
| $h_{FE}$      | DC current gain                      |                                                                         |         |     |     |      |               |
|               | BC807W                               | $V_{CE} = -1\text{ V}$ ; $I_C = -100\text{ mA}$                         | [1]     | 100 | -   | 600  |               |
|               | BC807-16W                            | $V_{CE} = -1\text{ V}$ ; $I_C = -100\text{ mA}$                         | [1]     | 100 | -   | 250  |               |
|               | BC807-25W                            | $V_{CE} = -1\text{ V}$ ; $I_C = -100\text{ mA}$                         | [1]     | 160 | -   | 400  |               |
|               | BC807-40W                            | $V_{CE} = -1\text{ V}$ ; $I_C = -100\text{ mA}$                         | [1]     | 250 | -   | 600  |               |
| $h_{FE}$      | DC current gain                      | $V_{CE} = -1\text{ V}$ ; $I_C = -500\text{ mA}$                         | [1]     | 40  | -   | -    |               |
| $V_{CEsat}$   | collector-emitter saturation voltage | $I_C = -500\text{ mA}$ ; $I_B = -50\text{ mA}$                          | [1]     | -   | -   | -700 | mV            |
| $V_{BE}$      | base-emitter voltage                 | $V_{CE} = -1\text{ V}$ ; $I_C = -500\text{ mA}$                         | [1] [2] | -   | -   | -1.2 | V             |
| $f_T$         | transition frequency                 | $V_{CE} = -5\text{ V}$ ; $I_C = -10\text{ mA}$ ; $f = 100\text{ MHz}$   |         | 80  | -   | -    | MHz           |
| $C_c$         | collector capacitance                | $V_{CB} = -10\text{ V}$ ; $I_E = I_B = 0\text{ A}$ ; $f = 1\text{ MHz}$ |         | -   | 5   | -    | pF            |

[1] pulsed;  $t_p \leq 300\text{ }\mu\text{s}$ ;  $\delta \leq 0.02$

[2]  $V_{BE}$  decreases by approximately 2 mV/K with increasing temperature.



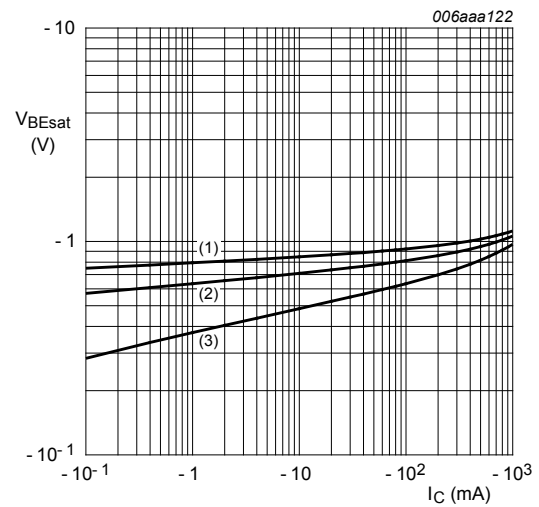
$V_{CE} = -1 \text{ V}$

(1)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

**Figure 4. BC807-16W: DC current gain as a function of collector current; typical values**



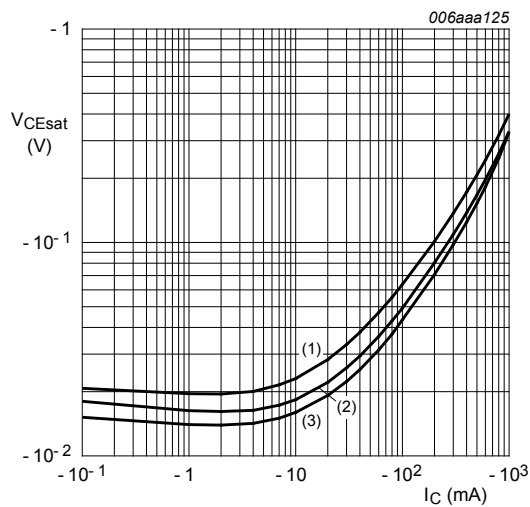
$I_C/I_B = 10$

(1)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

**Figure 5. BC807-16W: Base-emitter saturation voltage as a function of collector current; typical values**



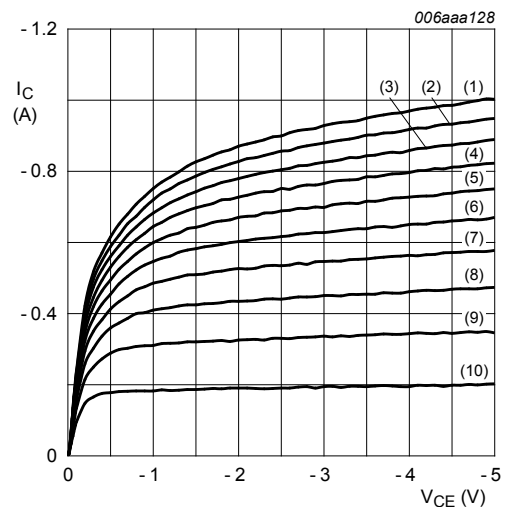
$I_C/I_B = 10$

(1)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

**Figure 6. BC807-16W: Collector-emitter saturation voltage as a function of collector current; typical values**



$T_{amb} = 25 \text{ }^{\circ}\text{C}$

(1)  $I_B = -16.0 \text{ mA}$

(2)  $I_B = -14.4 \text{ mA}$

(3)  $I_B = -12.8 \text{ mA}$

(4)  $I_B = -11.2 \text{ mA}$

(5)  $I_B = -9.6 \text{ mA}$

(6)  $I_B = -8.0 \text{ mA}$

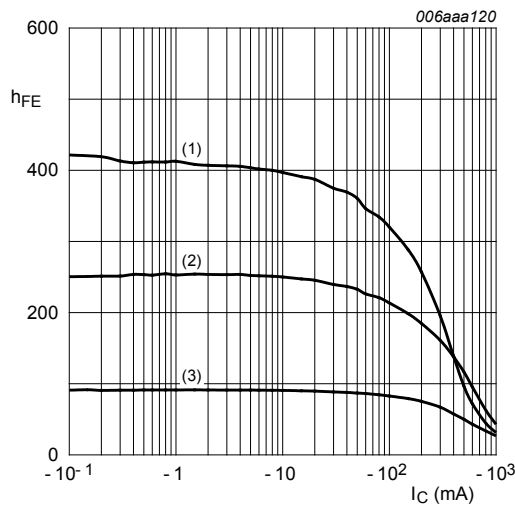
(7)  $I_B = -6.4 \text{ mA}$

(8)  $I_B = -4.8 \text{ mA}$

(9)  $I_B = -3.2 \text{ mA}$

(10)  $I_B = -1.6 \text{ mA}$

**Figure 7. BC807-16W: Collector current as a function of collector-emitter voltage; typical values**



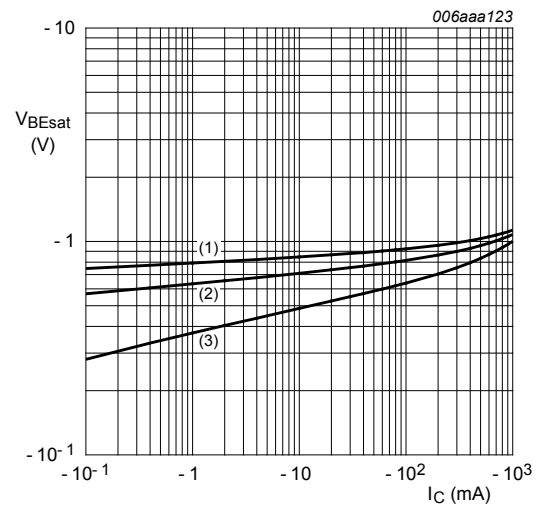
$V_{CE} = -1 \text{ V}$

(1)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

**Figure 8. BC807-25W: DC current gain as a function of collector current; typical values**



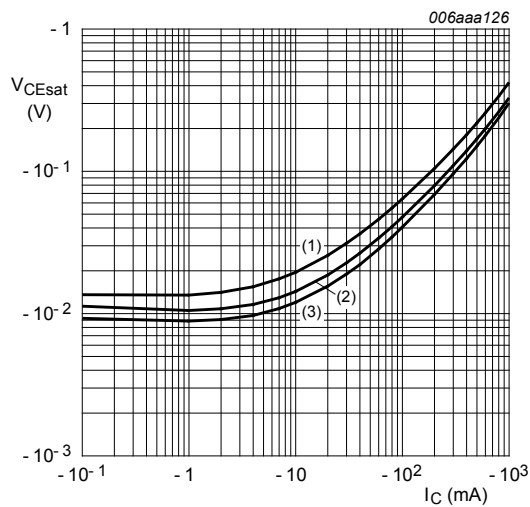
$I_C/I_B = 10$

(1)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

**Figure 9. BC807-25W: Base-emitter saturation voltage as a function of collector current; typical values**



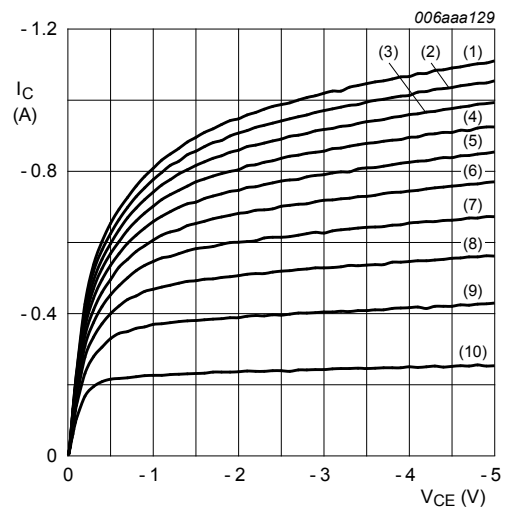
$I_C/I_B = 10$

(1)  $T_{amb} = 150 \text{ }^{\circ}\text{C}$

(2)  $T_{amb} = 25 \text{ }^{\circ}\text{C}$

(3)  $T_{amb} = -55 \text{ }^{\circ}\text{C}$

**Figure 10. BC807-25W: Collector-emitter saturation voltage as a function of collector current; typical values**



$T_{amb} = 25 \text{ }^{\circ}\text{C}$

(1)  $I_B = -13.0 \text{ mA}$

(2)  $I_B = -11.7 \text{ mA}$

(3)  $I_B = -10.4 \text{ mA}$

(4)  $I_B = -9.1 \text{ mA}$

(5)  $I_B = -7.8 \text{ mA}$

(6)  $I_B = -6.5 \text{ mA}$

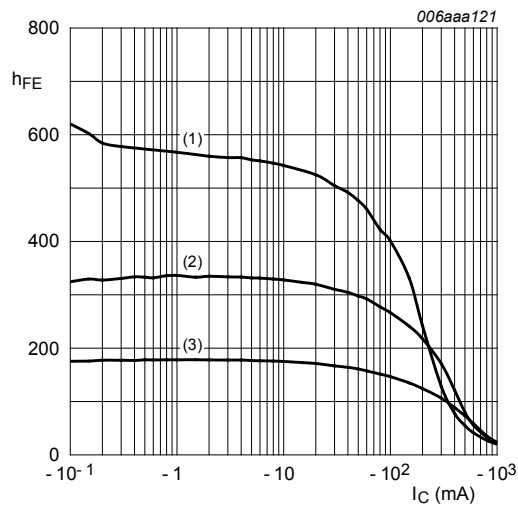
(7)  $I_B = -5.2 \text{ mA}$

(8)  $I_B = -3.9 \text{ mA}$

(9)  $I_B = -2.6 \text{ mA}$

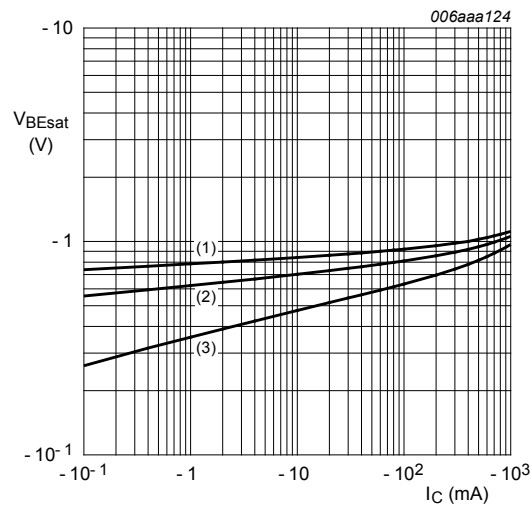
(10)  $I_B = -1.3 \text{ mA}$

**Figure 11. BC807-25W: Collector current as a function of collector-emitter voltage; typical values**



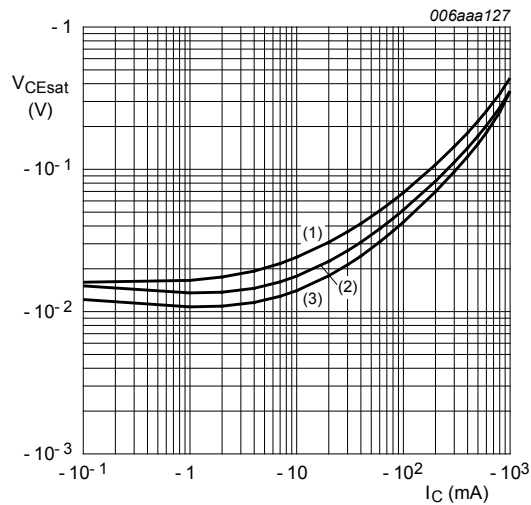
$V_{CE} = -1\text{ V}$   
(1)  $T_{amb} = 150\text{ }^{\circ}\text{C}$   
(2)  $T_{amb} = 25\text{ }^{\circ}\text{C}$   
(3)  $T_{amb} = -55\text{ }^{\circ}\text{C}$

Figure 12. BC807-40W: DC current gain as a function of collector current; typical values



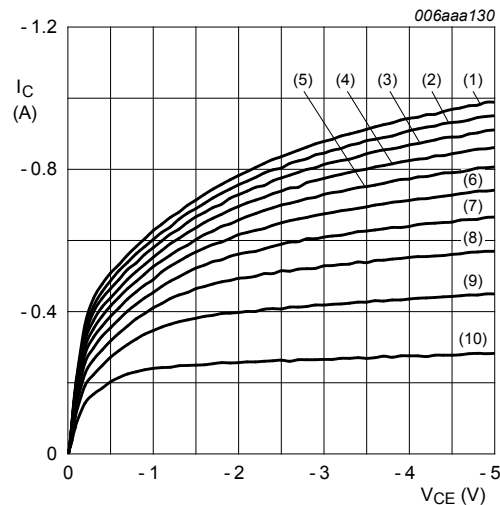
$I_C/I_B = 10$   
(1)  $T_{amb} = -55\text{ }^{\circ}\text{C}$   
(2)  $T_{amb} = 25\text{ }^{\circ}\text{C}$   
(3)  $T_{amb} = 150\text{ }^{\circ}\text{C}$

Figure 13. BC807-40W: Base-emitter saturation voltage as a function of collector current; typical values



$I_C/I_B = 10$   
(1)  $T_{amb} = 150\text{ }^{\circ}\text{C}$   
(2)  $T_{amb} = 25\text{ }^{\circ}\text{C}$   
(3)  $T_{amb} = -55\text{ }^{\circ}\text{C}$

Figure 14. BC807-40W: Collector-emitter saturation voltage as a function of collector current; typical values



$T_{amb} = 25\text{ }^{\circ}\text{C}$   
(1)  $I_B = -12.0\text{ mA}$   
(2)  $I_B = -10.8\text{ mA}$   
(3)  $I_B = -9.6\text{ mA}$   
(4)  $I_B = -8.4\text{ mA}$   
(5)  $I_B = -7.2\text{ mA}$   
(6)  $I_B = -6.0\text{ mA}$   
(7)  $I_B = -4.8\text{ mA}$   
(8)  $I_B = -3.6\text{ mA}$   
(9)  $I_B = -2.4\text{ mA}$   
(10)  $I_B = -1.2\text{ mA}$

Figure 15. BC807-40W: Collector current as a function of collector-emitter voltage; typical values

## 8 Test information

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### 8.1 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.

9 Package outline

Table 9. Package outline

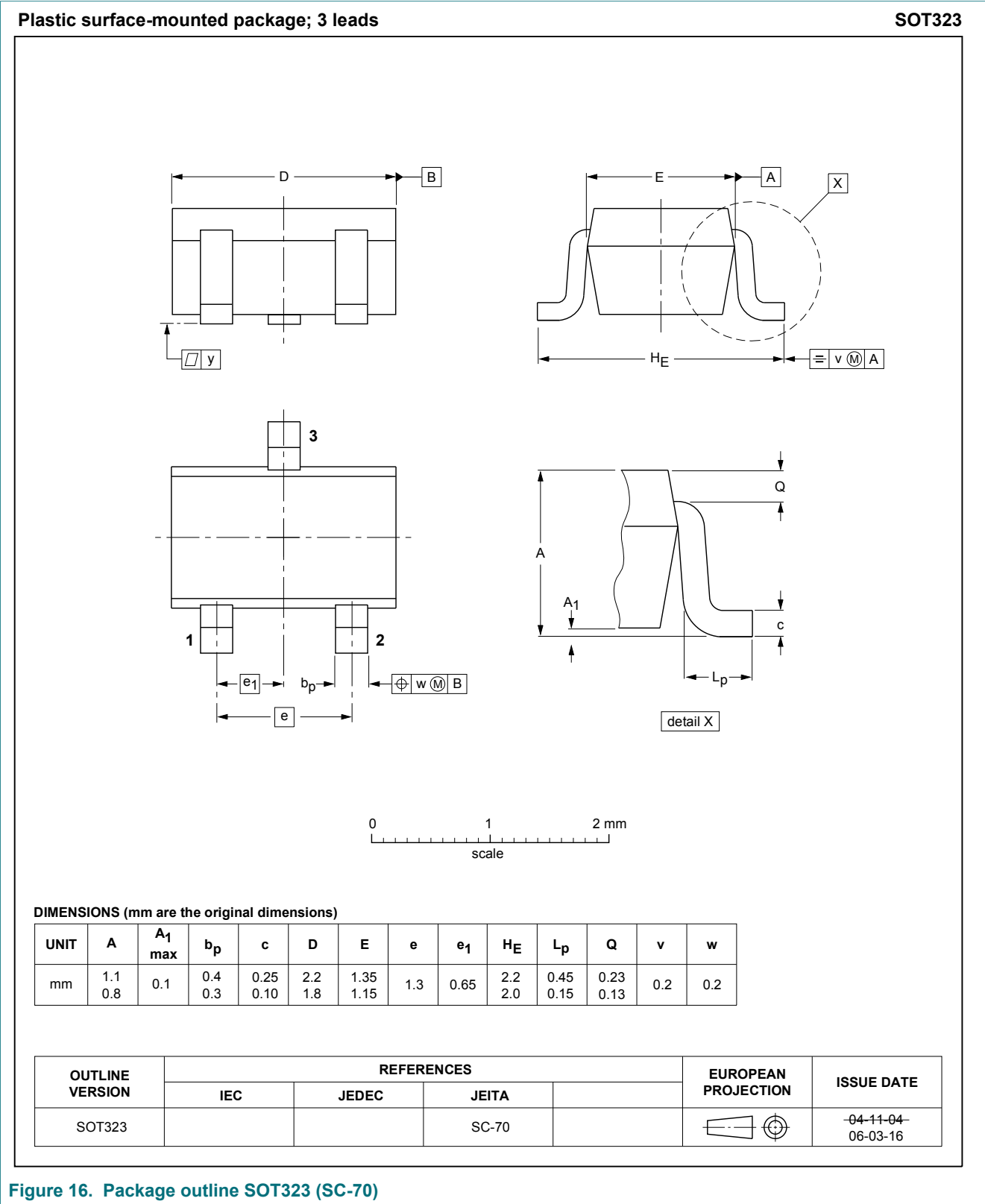
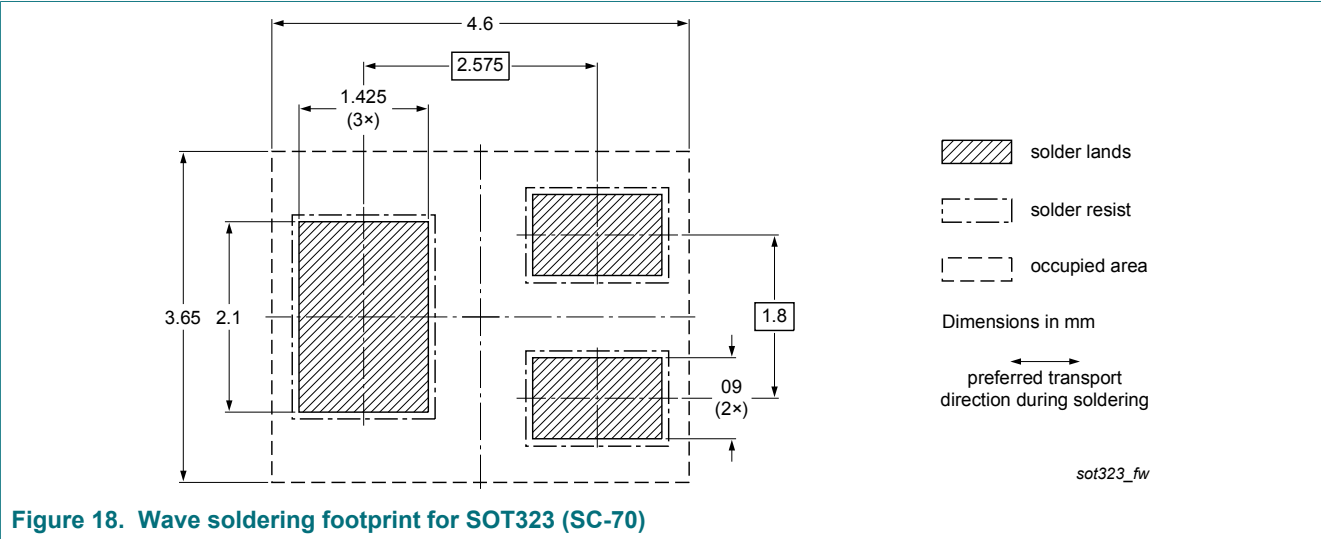
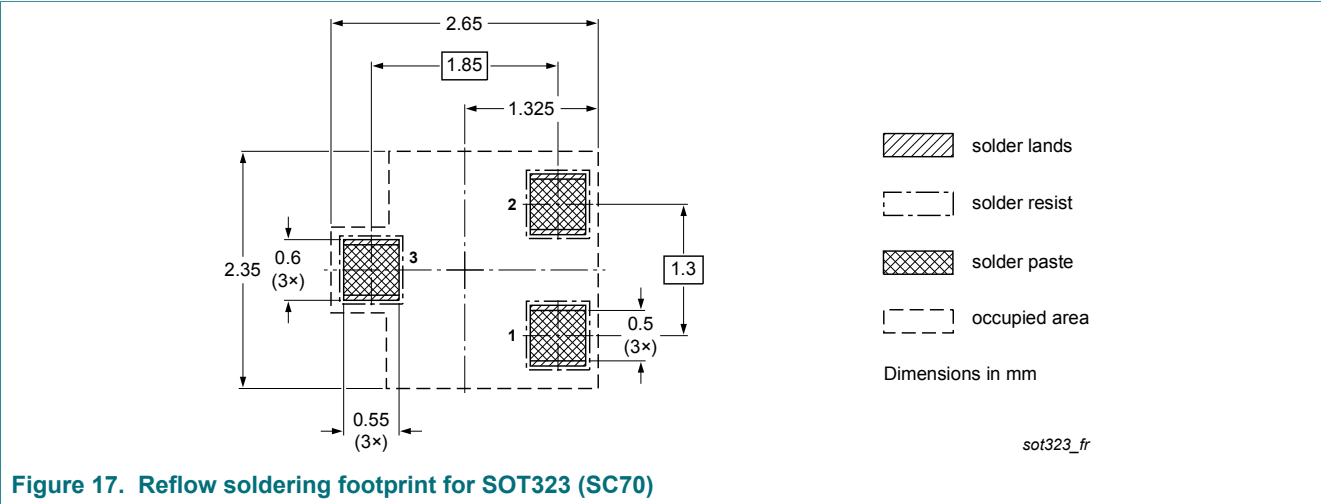


Figure 16. Package outline SOT323 (SC-70)

10 Soldering

Table 10. Soldering



## 11 Revision history

Table 11. Revision history

| Document ID            | Release date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Data sheet status     | Change notice                    | Supersedes                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|----------------------------------|-------------------------------------|
| BC807W v.7             | 20180703                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product data sheet    | -                                | BC807_BC807W_BC327 v.6              |
| Modifications:         | <ul style="list-style-type: none"> <li>• The format of this data sheet has been redesigned to comply with the identity guidelines of Nexperia.</li> <li>• Legal texts have been adapted to the new company name where appropriate.</li> <li>• Removed basic types BC327 and BC807</li> <li>• Added Fig 1. Power derating curves in section "Limiting values" and the thermal graphs as Fig 2. and Fig 3. in section "Thermal characteristics". Added Sections 8 "Test information" and 9 "Soldering"</li> <li>• Removed Section "Packing information"</li> <li>• AEC-Q101 qualified</li> </ul> |                       |                                  |                                     |
| BC807_BC807W_BC327 v.6 | 20091117                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product data sheet    | -                                | BC807_BC807W_BC327 v.5              |
| BC807_BC807W_BC327 v.5 | 20050221                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product data sheet    | CPCN200302007F<br>CPCN200405006F | BC807 v.4; BC807W v.3;<br>BC327 v.3 |
| BC807 v.4              | 20040116                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product Specification | -                                | BC807 v.3                           |
| BC807W v.3             | 19990518                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product Specification | -                                | BC807W_808W_CNV v.2                 |
| BC327 v.3              | 19990415                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Product Specification | -                                | BC327 v.2                           |

## 12 Legal information

### 12.1 Data sheet status

| Document status <sup>[1][2]</sup> | Product status <sup>[3]</sup> | 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.                                     |

[1] 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 <http://www.nexperia.com>.

### 12.2 Definitions

**Draft** — The document is a draft version only. The content is still under internal review and subject to formal approval, which may result in modifications or additions. Nexperia does not give any representations or warranties as to the accuracy or completeness of information included herein and shall have no liability for the consequences of use of such information.

**Short data sheet** — A short data sheet is an extract from a full data sheet with the same product type number(s) and title. A short data sheet is intended for quick reference only and should not be relied upon to contain detailed and full information. For detailed and full information see the relevant full data sheet, which is available on request via the local Nexperia sales office. In case of any inconsistency or conflict with the short data sheet, the full data sheet shall prevail.

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**Limiting values** — Stress above one or more limiting values (as defined in the Absolute Maximum Ratings System of IEC 60134) will cause permanent damage to the device. Limiting values are stress ratings only and (proper) operation of the device at these or any other conditions above those given in the Recommended operating conditions section (if present) or the Characteristics sections of this document is not warranted. Constant or repeated exposure to limiting values will permanently and irreversibly affect the quality and reliability of the device.

### 12.3 Disclaimers

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