

# BC817; BC817W; BC337

45 V, 500 mA NPN general-purpose transistors

Rev. 06 — 17 November 2009

Product data sheet

## 1. Product profile

### 1.1 General description

NPN general-purpose transistors.

Table 1. Product overview

| Type number          | Package       |        | PNP complement |
|----------------------|---------------|--------|----------------|
|                      | NXP           | JEITA  |                |
| BC817                | SOT23         | -      | BC807          |
| BC817W               | SOT323        | SC-70  | BC807W         |
| BC337 <sup>[1]</sup> | SOT54 (TO-92) | SC-43A | BC327          |

[1] Also available in SOT54A and SOT54 variant packages (see [Section 2](#)).

### 1.2 Features

- High current
- Low voltage

### 1.3 Applications

- General-purpose switching and amplification

### 1.4 Quick reference data

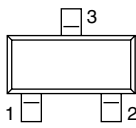
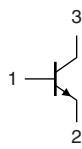
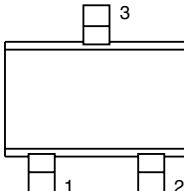
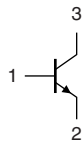
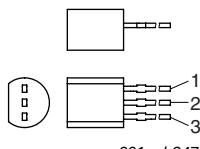
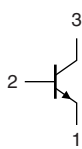
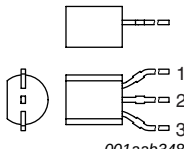
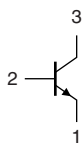
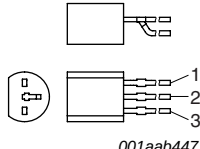
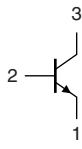
Table 2. Quick reference data

| Symbol    | Parameter                     | Conditions                                        | Min              | Typ | Max | Unit |
|-----------|-------------------------------|---------------------------------------------------|------------------|-----|-----|------|
| $V_{CE0}$ | collector-emitter voltage     | open base;<br>$I_C = 10 \text{ mA}$               | -                | -   | 45  | V    |
| $I_C$     | collector current (DC)        |                                                   | -                | -   | 500 | mA   |
| $I_{CM}$  | peak collector current        |                                                   | -                | -   | 1   | A    |
| $h_{FE}$  | DC current gain               | $I_C = 100 \text{ mA};$<br>$V_{CE} = 1 \text{ V}$ | <sup>[1]</sup> - | -   | -   |      |
|           | BC817; BC817W; BC337          |                                                   | 100              | -   | 600 |      |
|           | BC817-16; BC817-16W; BC337-16 |                                                   | 100              | -   | 250 |      |
|           | BC817-25; BC817-25W; BC337-25 |                                                   | 160              | -   | 400 |      |
|           | BC817-40; BC817-40W; BC337-40 |                                                   | 250              | -   | 600 |      |

[1] Pulse test:  $t_p \leq 300 \text{ } \mu\text{s}$ ;  $\delta \leq 0.02$ .

2. Pinning information

Table 3. Pinning

| Pin           | Description | Simplified outline                                                                                 | Symbol                                                                                          |
|---------------|-------------|----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| SOT23         |             |                                                                                                    |                                                                                                 |
| 1             | base        |                 | <br>sym021   |
| 2             | emitter     |                                                                                                    |                                                                                                 |
| 3             | collector   |                                                                                                    |                                                                                                 |
| SOT323        |             |                                                                                                    |                                                                                                 |
| 1             | base        | <br>sot323_so   | <br>sym021   |
| 2             | emitter     |                                                                                                    |                                                                                                 |
| 3             | collector   |                                                                                                    |                                                                                                 |
| SOT54         |             |                                                                                                    |                                                                                                 |
| 1             | emitter     | <br>001aab347  | <br>sym026 |
| 2             | base        |                                                                                                    |                                                                                                 |
| 3             | collector   |                                                                                                    |                                                                                                 |
| SOT54A        |             |                                                                                                    |                                                                                                 |
| 1             | emitter     | <br>001aab348 | <br>sym026 |
| 2             | base        |                                                                                                    |                                                                                                 |
| 3             | collector   |                                                                                                    |                                                                                                 |
| SOT54 variant |             |                                                                                                    |                                                                                                 |
| 1             | emitter     | <br>001aab447  | <br>sym026 |
| 2             | base        |                                                                                                    |                                                                                                 |
| 3             | collector   |                                                                                                    |                                                                                                 |

### 3. Ordering information

**Table 4. Ordering information**

| Type number <sup>[1]</sup> | Package |                                                             |         |
|----------------------------|---------|-------------------------------------------------------------|---------|
|                            | Name    | Description                                                 | Version |
| BC817                      | -       | plastic surface mounted package; 3 leads                    | SOT23   |
| BC817W                     | SC-70   | plastic surface mounted package; 3 leads                    | SOT323  |
| BC337 <sup>[2]</sup>       | SC-43A  | plastic single-ended leaded (through hole) package; 3 leads | SOT54   |

[1] Valid for all available selection groups.

[2] Also available in SOT54A and SOT54 variant packages (see [Section 2](#) and [Section 9](#)).

### 4. Marking

**Table 5. Marking codes**

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| BC817       | 6D*                         |
| BC817-16    | 6A*                         |
| BC817-25    | 6B*                         |
| BC817-40    | 6C*                         |
| BC817W      | 6D*                         |
| BC817-16W   | 6A*                         |
| BC817-25W   | 6B*                         |
| BC817-40W   | 6C*                         |
| BC337       | C337                        |
| BC337-16    | C33716                      |
| BC337-25    | C33725                      |
| BC337-40    | C33740                      |

[1] \* = -: made in Hong Kong

\* = p: made in Hong Kong

\* = t: made in Malaysia

\* = W: made in China

## 5. Limiting values

**Table 6. Limiting values**

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

| Symbol           | Parameter                 | Conditions                           | Min                                       | Max  | Unit |
|------------------|---------------------------|--------------------------------------|-------------------------------------------|------|------|
| V <sub>CBO</sub> | collector-base voltage    | open emitter                         | -                                         | 50   | V    |
| V <sub>CEO</sub> | collector-emitter voltage | open base;<br>I <sub>C</sub> = 10 mA | -                                         | 45   | V    |
| V <sub>EBO</sub> | emitter-base voltage      | open collector                       | -                                         | 5    | V    |
| I <sub>C</sub>   | collector current (DC)    |                                      | -                                         | 500  | mA   |
| I <sub>CM</sub>  | peak collector current    |                                      | -                                         | 1    | A    |
| I <sub>BM</sub>  | peak base current         |                                      | -                                         | 200  | mA   |
| P <sub>tot</sub> | total power dissipation   |                                      |                                           |      |      |
|                  | BC817                     | T <sub>amb</sub> ≤ 25 °C             | <a href="#">[1]</a> <a href="#">[2]</a> - | 250  | mW   |
|                  | BC817W                    | T <sub>amb</sub> ≤ 25 °C             | <a href="#">[1]</a> <a href="#">[2]</a> - | 200  | mW   |
|                  | BC337                     | T <sub>amb</sub> ≤ 25 °C             | <a href="#">[1]</a> <a href="#">[2]</a> - | 625  | mW   |
| T <sub>stg</sub> | storage temperature       |                                      | -65                                       | +150 | °C   |
| T <sub>j</sub>   | junction temperature      |                                      | -                                         | 150  | °C   |
| T <sub>amb</sub> | ambient temperature       |                                      | -65                                       | +150 | °C   |

[1] Transistor mounted on an FR4 printed-circuit board, single-sided copper, tin-plated and standard footprint.

[2] Valid for all available selection groups.

## 6. Thermal characteristics

**Table 7. Thermal characteristics**

| Symbol        | Parameter                                   | Conditions                  | Min                                     | Typ | Max | Unit |
|---------------|---------------------------------------------|-----------------------------|-----------------------------------------|-----|-----|------|
| $R_{th(j-a)}$ | thermal resistance from junction to ambient |                             |                                         |     |     |      |
|               | BC817                                       | $T_{amb} \leq 25\text{ °C}$ | <a href="#">[1]</a> <a href="#">[2]</a> | -   | 500 | K/W  |
|               | BC817W                                      | $T_{amb} \leq 25\text{ °C}$ | <a href="#">[1]</a> <a href="#">[2]</a> | -   | 625 | K/W  |
|               | BC337                                       | $T_{amb} \leq 25\text{ °C}$ | <a href="#">[1]</a> <a href="#">[2]</a> | -   | 200 | K/W  |

[1] Transistor mounted on an FR4 printed-circuit board, single-sided copper, tin-plated and standard footprint.

[2] Valid for all available selection groups.

## 7. Characteristics

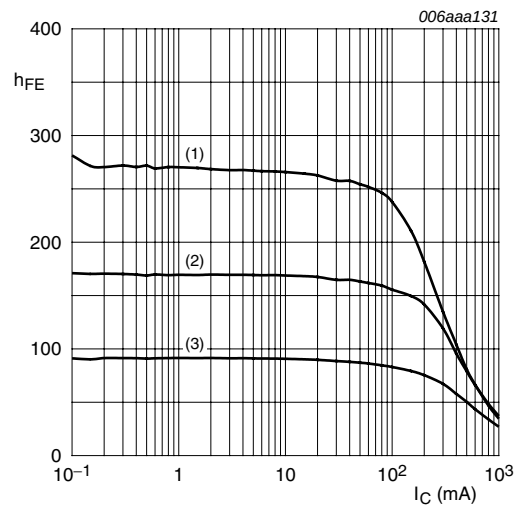
**Table 8. Characteristics**

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

| Symbol      | Parameter                            | Conditions                                                                       | Min | Typ | Max | Unit          |
|-------------|--------------------------------------|----------------------------------------------------------------------------------|-----|-----|-----|---------------|
| $I_{CBO}$   | collector-base cut-off current       | $I_E = 0\text{ A}; V_{CB} = 20\text{ V}$                                         | -   | -   | 100 | nA            |
|             |                                      | $I_E = 0\text{ A}; V_{CB} = 20\text{ V};$<br>$T_J = 150\text{ }^{\circ}\text{C}$ | -   | -   | 5   | $\mu\text{A}$ |
| $I_{EBO}$   | emitter-base cut-off current         | $I_C = 0\text{ A}; V_{EB} = 5\text{ V}$                                          | -   | -   | 100 | nA            |
| $h_{FE}$    | DC current gain                      | $I_C = 100\text{ mA}; V_{CE} = 1\text{ V}$                                       | [1] |     |     |               |
|             | BC817; BC817W; BC337                 |                                                                                  | 100 | -   | 600 |               |
|             | BC817-16; BC817-16W;<br>BC337-16     |                                                                                  | 100 | -   | 250 |               |
|             | BC817-25; BC817-25W;<br>BC337-25     |                                                                                  | 160 | -   | 400 |               |
| $h_{FE}$    | DC current gain                      | $I_C = 500\text{ mA}; V_{CE} = 1\text{ V}$                                       | [1] | 40  | -   | -             |
|             | BC817-40; BC817-40W;<br>BC337-40     |                                                                                  | 250 | -   | 600 |               |
| $V_{CEsat}$ | collector-emitter saturation voltage | $I_C = 500\text{ mA}; I_B = 50\text{ mA}$                                        | [1] | -   | -   | 700 mV        |
| $V_{BE}$    | base-emitter voltage                 | $I_C = 500\text{ mA}; V_{CE} = 1\text{ V}$                                       | [2] | -   | -   | 1.2 V         |
| $C_c$       | collector capacitance                | $I_E = i_e = 0\text{ A}; V_{CB} = 10\text{ V};$<br>$f = 1\text{ MHz}$            | -   | 3   | -   | pF            |
| $f_T$       | transition frequency                 | $I_C = 10\text{ mA}; V_{CE} = 5\text{ V};$<br>$f = 100\text{ MHz}$               | 100 | -   | -   | MHz           |

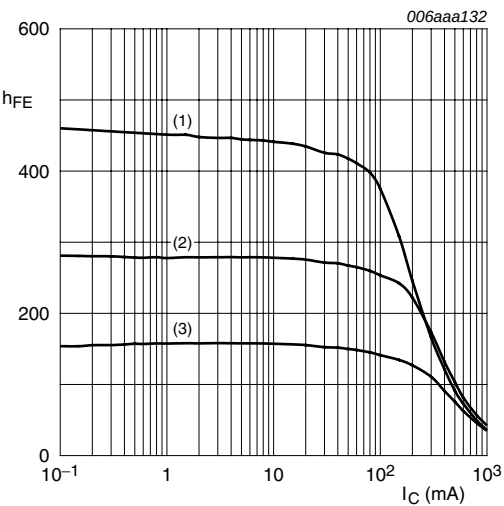
[1] Pulse test:  $t_p \leq 300\text{ }\mu\text{s}$ ;  $\delta \leq 0.02$ .

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



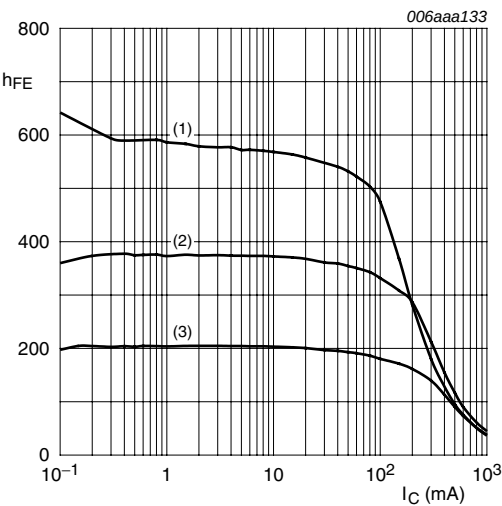
- $V_{CE} = 1\text{ V}$
- (1)  $T_{amb} = 150\text{ }^{\circ}\text{C}$
  - (2)  $T_{amb} = 25\text{ }^{\circ}\text{C}$
  - (3)  $T_{amb} = -55\text{ }^{\circ}\text{C}$

Fig 1. Selection -16: DC current gain as a function of collector current; typical values



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

Fig 2. Selection -25: DC current gain as a function of collector current; typical values



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

Fig 3. Selection -40: DC current gain as a function of collector current; typical values

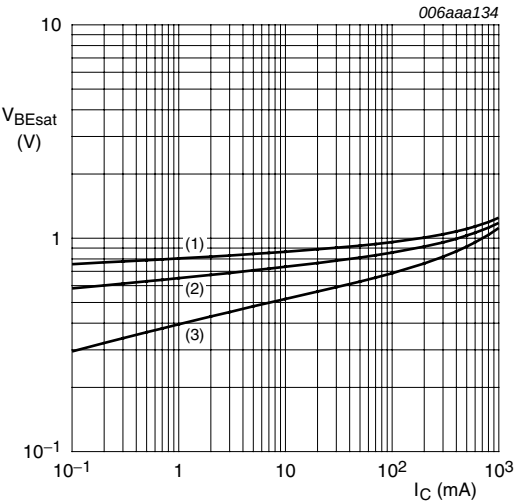


Fig 4. Selection -16: Base-emitter saturation voltage as a function of collector current; typical values

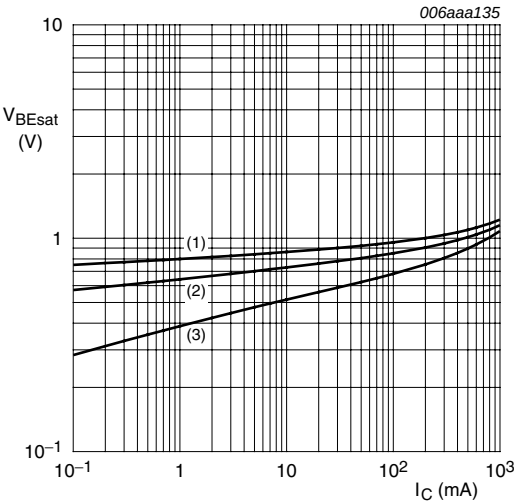


Fig 5. Selection -25: Base-emitter saturation voltage as a function of collector current; typical values

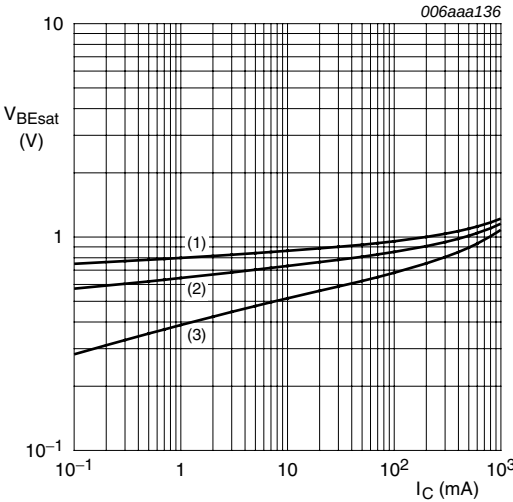
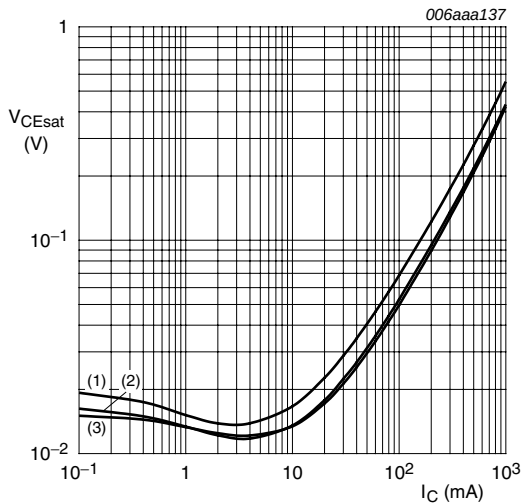
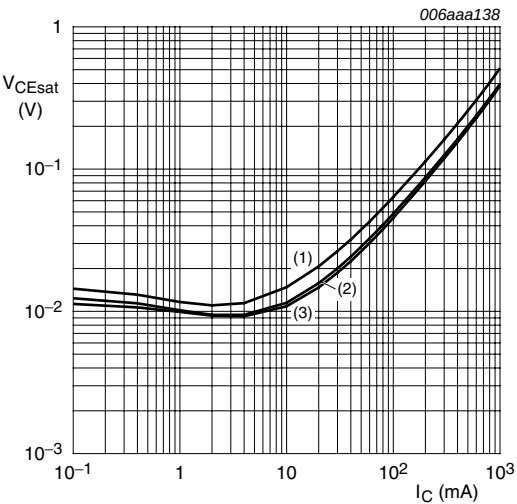


Fig 6. Selection -40: Base-emitter saturation voltage as a function of collector current; typical values



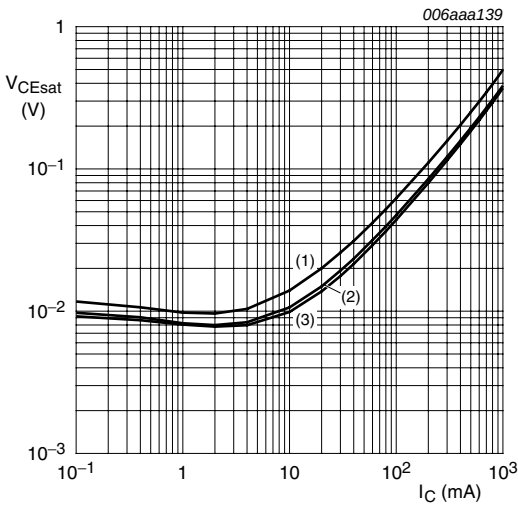
- $I_C/I_B = 10$
- (1)  $T_{amb} = 150\text{ }^{\circ}\text{C}$
  - (2)  $T_{amb} = 25\text{ }^{\circ}\text{C}$
  - (3)  $T_{amb} = -55\text{ }^{\circ}\text{C}$

Fig 7. Selection -16: Collector-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)  $T_{amb} = -55\text{ }^{\circ}\text{C}$

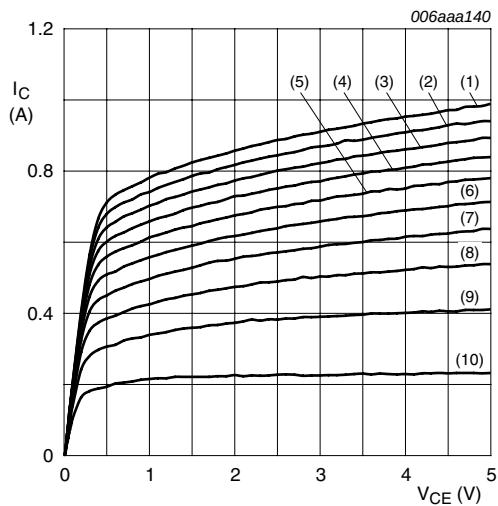
Fig 8. Selection -25: Collector-emitter saturation voltage as a function of collector current; typical values



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

Fig 9. Selection -40: Collector-emitter saturation voltage as a function of collector current; typical values

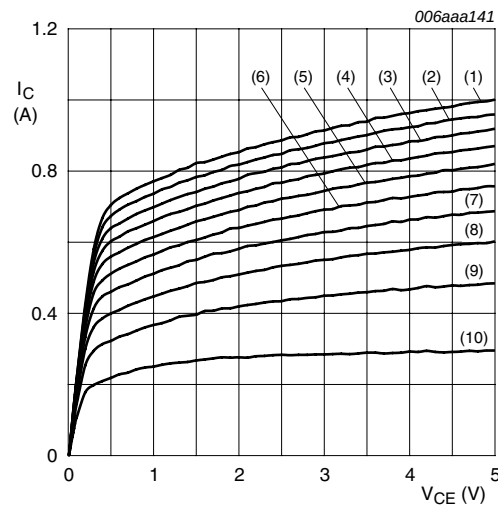




$T_{amb} = 25\text{ }^{\circ}\text{C}$

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

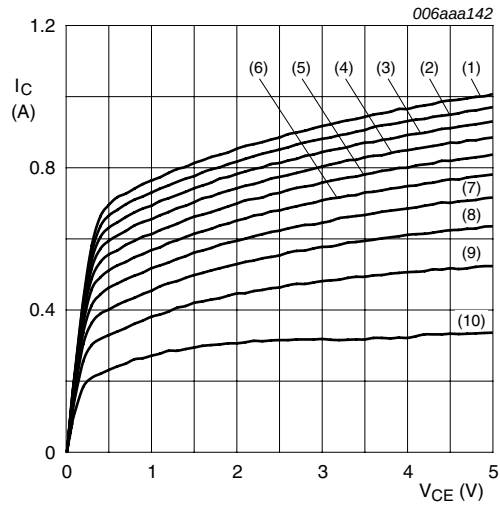
Fig 10. Selection -16: Collector current as a function of collector-emitter voltage; typical values



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

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

Fig 11. Selection -25: Collector current as a function of collector-emitter voltage; typical values



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

- (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)  $I_B = 1.2\text{ mA}$

**Fig 12. Selection -40: Collector current as a function of collector-emitter voltage; typical values**

8. Package outline

Plastic surface-mounted package; 3 leads

SOT23

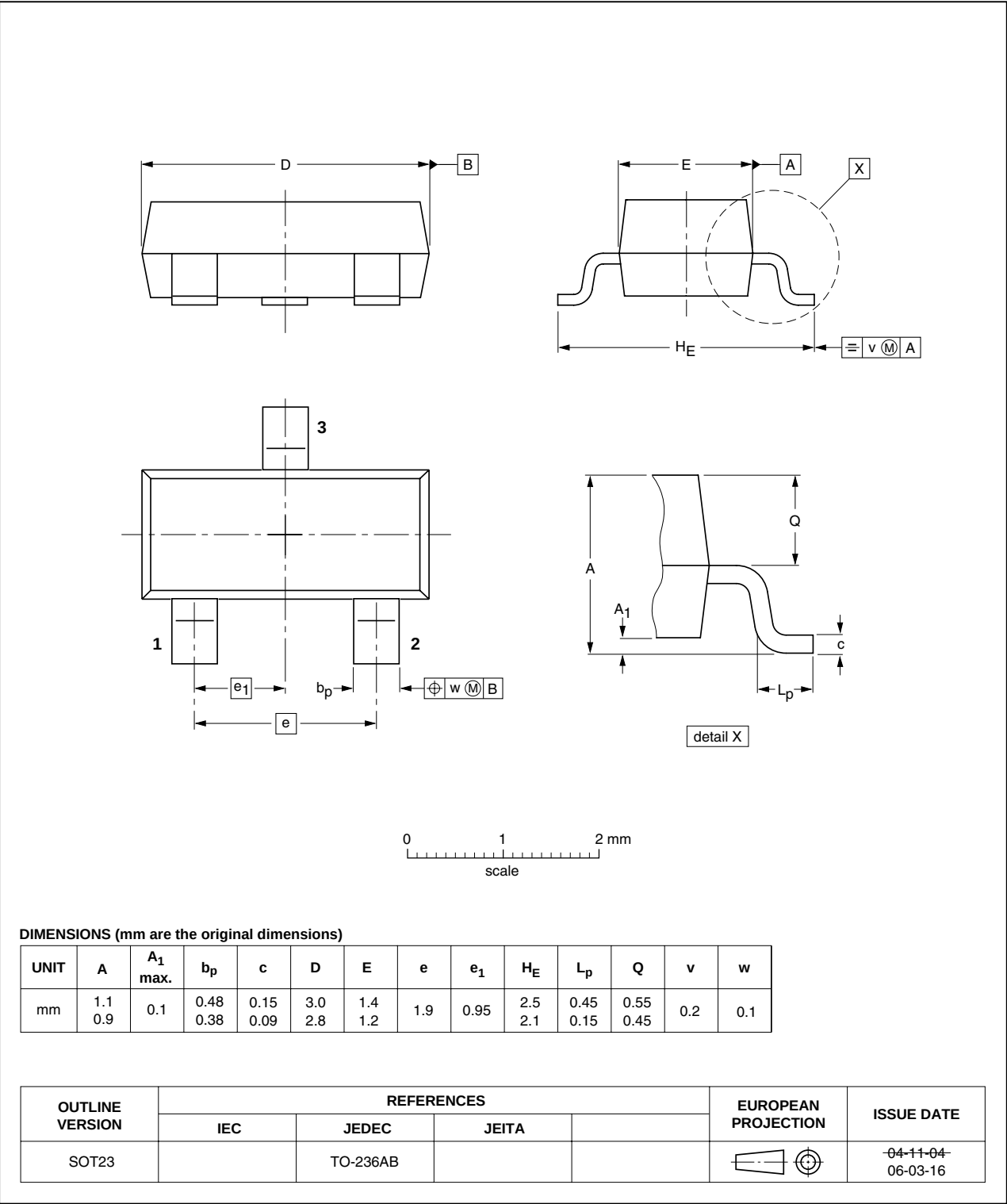


Fig 13. Package outline SOT23 (TO-236AB)

Plastic surface-mounted package; 3 leads

SOT323

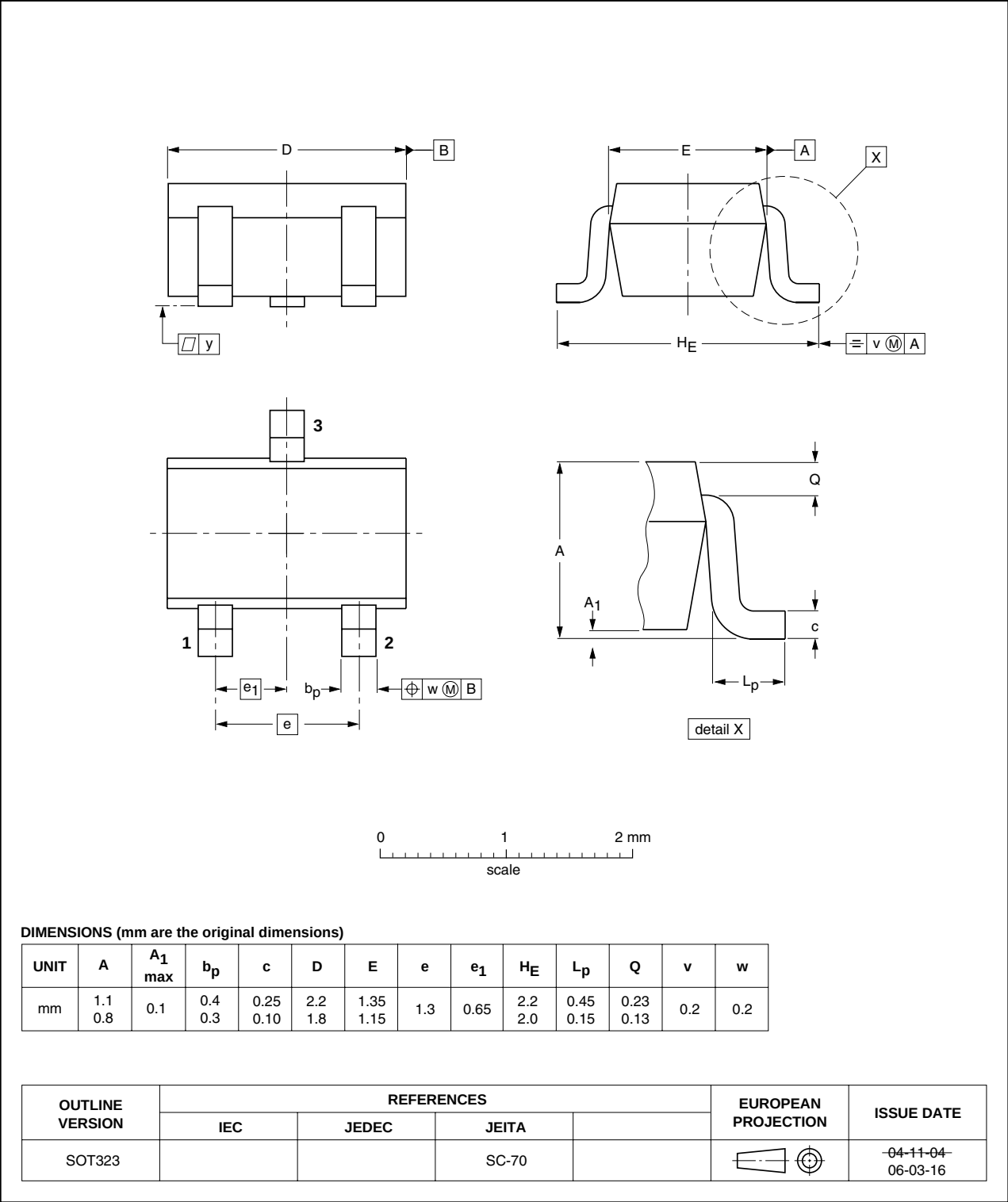


Fig 14. Package outline SOT323 (SC-70)

Plastic single-ended leaded (through hole) package; 3 leads

SOT54

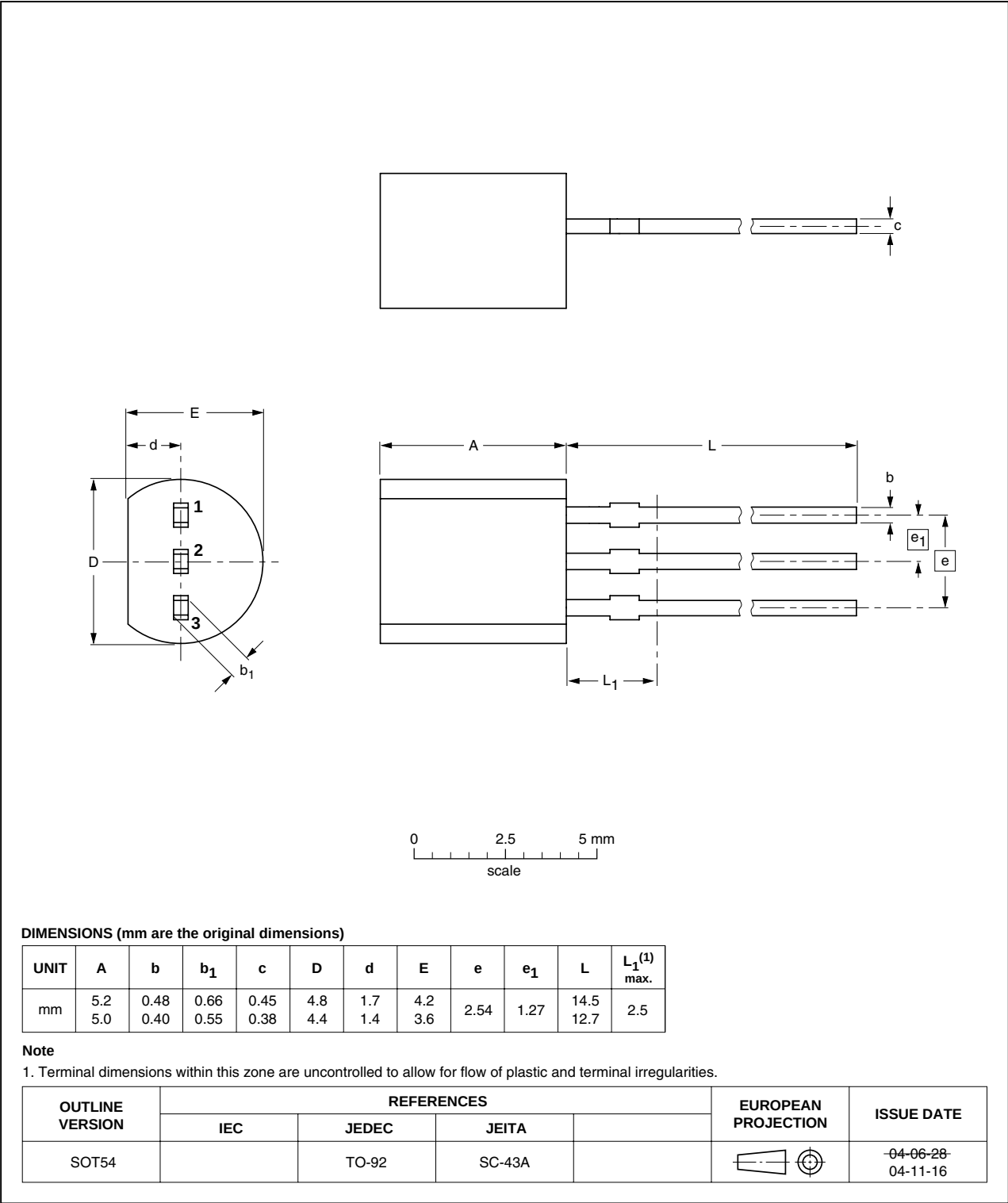


Fig 15. Package outline SOT54 (SC-43A/TO-92)

Plastic single-ended leaded (through hole) package; 3 leads (wide pitch)

SOT54A

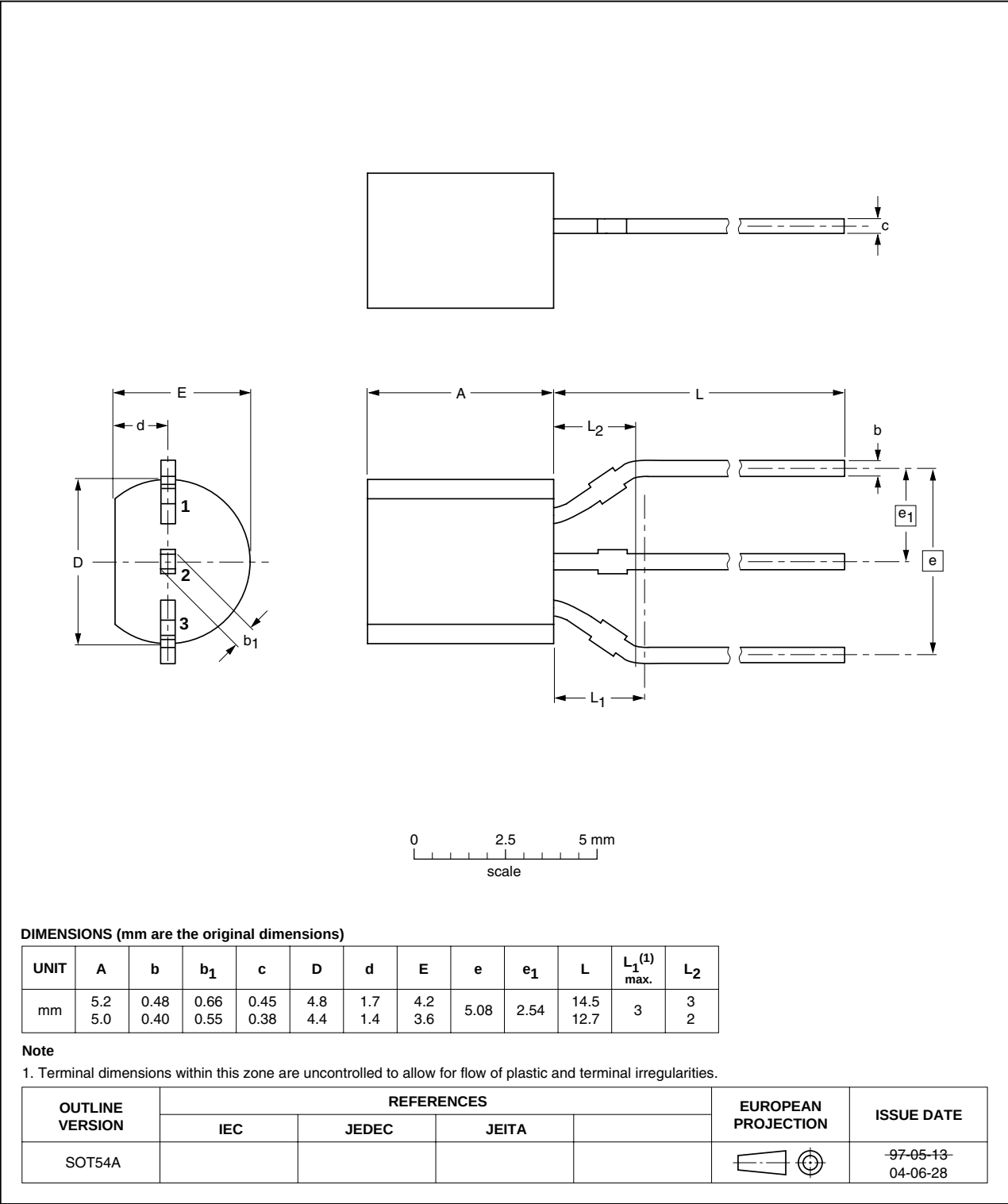


Fig 16. Package outline SOT54A

Plastic single-ended leaded (through hole) package; 3 leads (on-circle)

SOT54 variant

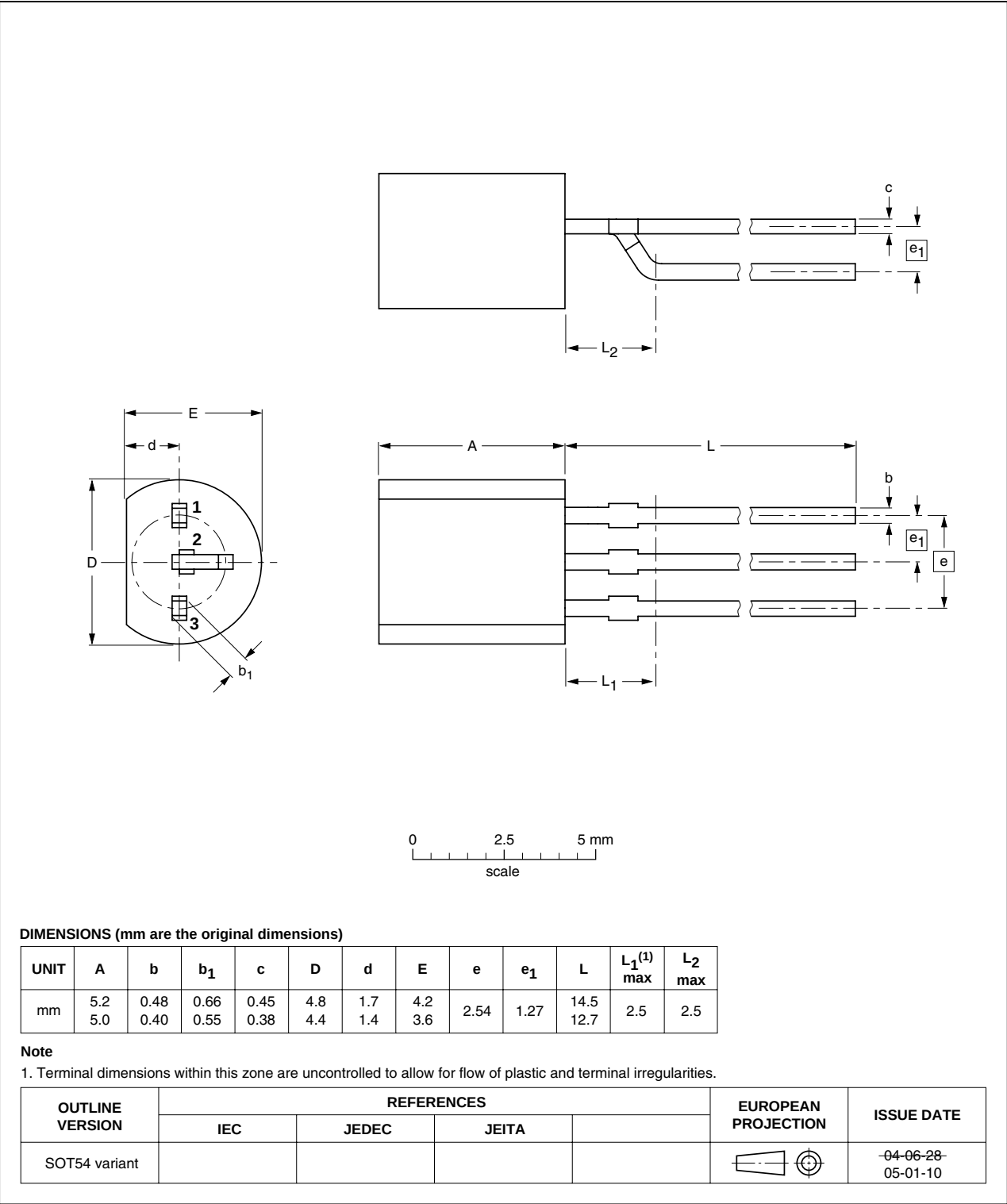


Fig 17. Package outline SOT54 variant

## 9. Packing information

**Table 9. Packing methods**

The indicated -xxx are the last three digits of the 12NC ordering code.<sup>[1]</sup>

| Type number | Package        | Description                     | Packing quantity |      |       |
|-------------|----------------|---------------------------------|------------------|------|-------|
|             |                |                                 | 3000             | 5000 | 10000 |
| BC817       | SOT23          | 4 mm pitch, 8 mm tape and reel  | -215             | -    | -235  |
| BC817W      | SOT323         | 4 mm pitch, 8 mm tape and reel  | -115             | -    | -135  |
| BC337       | SOT54          | bulk, straight leads            | -                | -412 | -     |
| BC337       | SOT54A         | tape and reel, wide pitch       | -                | -    | -116  |
| BC337       | SOT54A         | tape ammopack, wide pitch       | -                | -    | -126  |
| BC337       | SOT 54 variant | bulk, delta pinning (on-circle) | -                | -112 | -     |

[1] For further information and the availability of packing methods, see [Section 12](#).



## 10. Revision history

**Table 10. Revision history**

| Document ID              | Release date                                                                                                                                                                                                                                                                                                                                                                                                                                              | Data sheet status     | Change notice   | Supersedes                           |
|--------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------|--------------------------------------|
| BC817_BC817W_<br>BC337_6 | 20091117                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Product data sheet    | -               | BC817_BC817W_<br>BC337_5             |
| Modifications:           | <ul style="list-style-type: none"> <li>• This data sheet was changed to reflect the new company name NXP Semiconductors, including new legal definitions and disclaimers. No changes were made to the technical content.</li> <li>• <a href="#">Table 3 "Pinning"</a>: updated</li> <li>• <a href="#">Figure 13 "Package outline SOT23 (TO-236AB)"</a>: updated</li> <li>• <a href="#">Figure 14 "Package outline SOT323 (SC-70)"</a>: updated</li> </ul> |                       |                 |                                      |
| BC817_BC817W_<br>BC337_5 | 20050121                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Product data sheet    | CPCN200302007F1 | BC817_4;<br>BC817W_SER_4;<br>BC337_3 |
| BC817_4                  | 20040105                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Product specification | -               | BC817_3                              |
| BC817W_SER_4             | 20040225                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Product specification | -               | BC817W_SER_3                         |
| BC337_3                  | 19990415                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Product specification | -               | BC337_338_CNV_2                      |

## 11. Legal information

### 11.1 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".

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Authorized Distribution Brand :



Website :

Welcome to visit [www.ameya360.com](http://www.ameya360.com)

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd  
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692

Email [amall@ameya360.com](mailto:amall@ameya360.com)

QQ 800077892

Skype ameyasales1 ameyasales2

➤ Customer Service :

Email [service@ameya360.com](mailto:service@ameya360.com)

➤ Partnership :

Tel +86 (21) 64016692-8333

Email [mkt@ameya360.com](mailto:mkt@ameya360.com)