

## Important notice

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Kind regards,

Team Nexperia

# PDTA123J series

PNP resistor-equipped transistors;  
R1 = 2.2 k $\Omega$ , R2 = 47 k $\Omega$

Rev. 5 — 21 December 2011

Product data sheet

## 1. Product profile

### 1.1 General description

PNP Resistor-Equipped Transistor (RET) family in small Surface-Mounted Device (SMD) plastic packages.

Table 1. Product overview

| Type number | Package |        |          | NPN complement | Package configuration |
|-------------|---------|--------|----------|----------------|-----------------------|
|             | NXP     | JEITA  | JEDEC    |                |                       |
| PDTA123JE   | SOT416  | SC-75  | -        | PDTC123JE      | ultra small           |
| PDTA123JM   | SOT883  | SC-101 | -        | PDTC123JM      | leadless ultra small  |
| PDTA123JT   | SOT23   | -      | TO-236AB | PDTC123JT      | small                 |
| PDTA123JU   | SOT323  | SC-70  | -        | PDTC123JU      | very small            |

### 1.2 Features and benefits

- 100 mA output current capability
- Built-in bias resistors
- Simplifies circuit design
- Reduces component count
- Reduces pick and place costs
- AEC-Q101 qualified

### 1.3 Applications

- Digital application in automotive and industrial segments
- Control of IC inputs
- Cost-saving alternative for BC847/857 series in digital applications
- Switching loads

### 1.4 Quick reference data

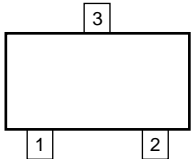
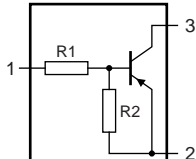
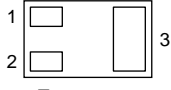
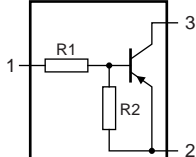
Table 2. Quick reference data

| Symbol           | Parameter                 | Conditions | Min  | Typ  | Max  | Unit       |
|------------------|---------------------------|------------|------|------|------|------------|
| V <sub>CEO</sub> | collector-emitter voltage | open base  | -    | -    | -50  | V          |
| I <sub>O</sub>   | output current            |            | -    | -    | -100 | mA         |
| R1               | bias resistor 1 (input)   |            | 1.54 | 2.20 | 2.86 | k $\Omega$ |
| R2/R1            | bias resistor ratio       |            | 17   | 21   | 26   |            |



## 2. Pinning information

Table 3. Pinning

| Pin                          | Description        | Simplified outline  | Graphic symbol  |
|------------------------------|--------------------|---|---|
| <b>SOT23; SOT323; SOT416</b> |                    |   |   |
| 1                            | input (base)       |  <p>006aaa144</p>            |  <p>sym003</p> |
| 2                            | GND (emitter)      |   |   |
| 3                            | output (collector) |   |   |
| <b>SOT883</b>                |                    |   |   |
| 1                            | input (base)       |  <p>Transparent top view</p> |  <p>sym003</p> |
| 2                            | GND (emitter)      |   |   |
| 3                            | output (collector) |   |   |

## 3. Ordering information

Table 4. Ordering information

| Type number | Package |   |         |
|-------------|---------|---|---------|
|             | Name    | Description   | Version |
| PDTA123JE   | SC-75   | plastic surface-mounted package; 3 leads                                      | SOT416  |
| PDTA123JM   | SC-101  | leadless ultra small plastic package; 3 solder lands; body 1.0 × 0.6 × 0.5 mm | SOT883  |
| PDTA123JT   | -       | plastic surface-mounted package; 3 leads                                      | SOT23   |
| PDTA123JU   | SC-70   | plastic surface-mounted package; 3 leads                                      | SOT323  |

## 4. Marking

Table 5. Marking codes

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| PDTA123JE   | 27                          |
| PDTA123JM   | DG                          |
| PDTA123JT   | *23                         |
| PDTA123JU   | *43                         |

[1] \* = placeholder for manufacturing site code.

## 5. Limiting values

**Table 6. Limiting values**

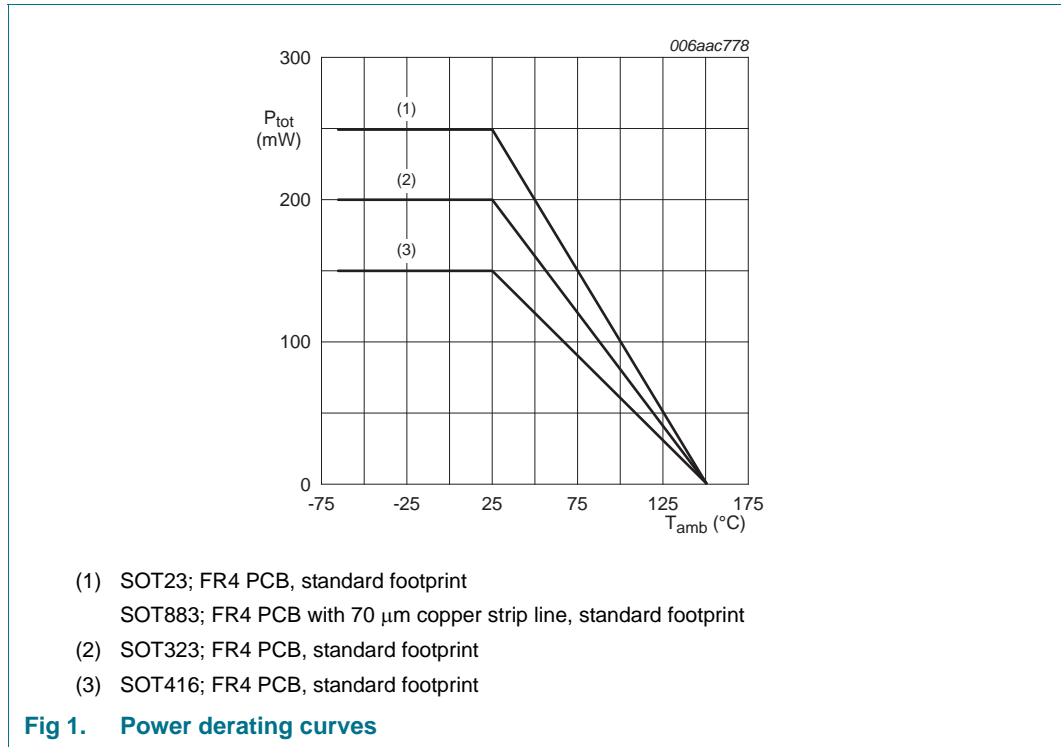
*In accordance with the Absolute Maximum Rating System (IEC 60134).*

| 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                           | -      | -50  | V    |    |
| V <sub>EBO</sub> | emitter-base voltage      | open collector                      | -      | -10  | V    |    |
| V <sub>I</sub>   | input voltage             |                                     |        |      |      |    |
|                  | positive                  |                                     | -      | +5   | V    |    |
|                  | negative                  |                                     | -      | -12  | V    |    |
| I <sub>O</sub>   | output current            |                                     | -      | -100 | mA   |    |
| I <sub>CM</sub>  | peak collector current    | single pulse; t <sub>p</sub> ≤ 1 ms | -      | -100 | mA   |    |
| P <sub>tot</sub> | total power dissipation   | T <sub>amb</sub> ≤ 25 °C            |        |      |      |    |
|                  | PDTA123JE (SOT416)        |                                     | [1][2] | -    | 150  | mW |
|                  | PDTA123JM (SOT883)        |                                     | [2][3] | -    | 250  | mW |
|                  | PDTA123JT (SOT23)         |                                     | [1]    | -    | 250  | mW |
|                  | PDTA123JU (SOT323)        |                                     | [1]    | -    | 200  | mW |
| T <sub>j</sub>   | junction temperature      |                                     | -      | 150  | °C   |    |
| T <sub>amb</sub> | ambient temperature       |                                     | -65    | +150 | °C   |    |
| T <sub>stg</sub> | storage temperature       |                                     | -65    | +150 | °C   |    |

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

[2] Reflow soldering is the only recommended soldering method.

[3] Device mounted on an FR4 PCB with 70  $\mu$ m copper strip line, standard footprint.



## 6. Thermal characteristics

**Table 7. Thermal characteristics**

| Symbol               | Parameter                                   | Conditions  | Min | Typ | Max | Unit |
|----------------------|---|-------------|-----|-----|-----|------|
| R <sub>th(j-a)</sub> | thermal resistance from junction to ambient | in free air |     |     |     |      |
|                      | PDTA123JE (SOT416)                          | [1][2]      | -   | -   | 830 | K/W  |
|                      | PDTA123JM (SOT883)                          | [2][3]      | -   | -   | 500 | K/W  |
|                      | PDTA123JT (SOT23)                           | [1]         | -   | -   | 500 | K/W  |
|                      | PDTA123JU (SOT323)                          | [1]         | -   | -   | 625 | K/W  |

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

[2] Reflow soldering is the only recommended soldering method.

[3] Device mounted on an FR4 PCB with 70 μm copper strip line, standard footprint.



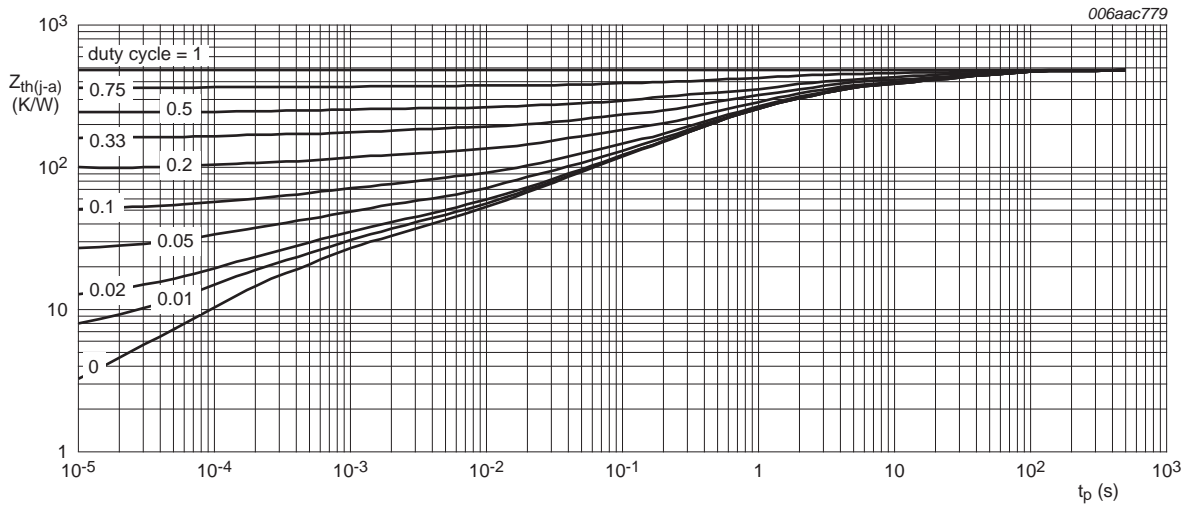
FR4 PCB, standard footprint

**Fig 2. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA123JE (SOT416); typical values**



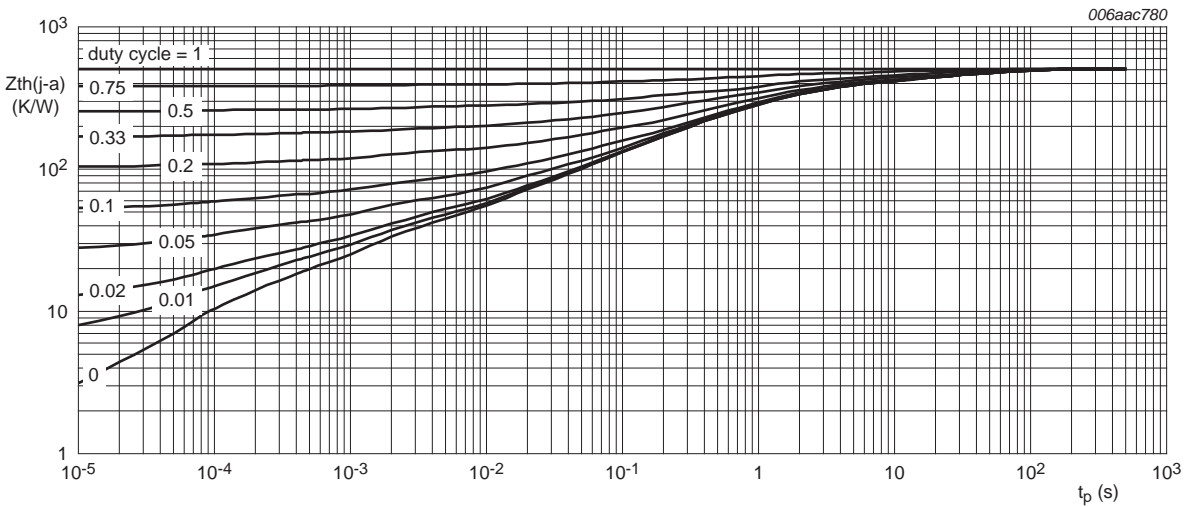
FR4 PCB, 70 μm copper strip line

**Fig 3. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA123JM (SOT883); typical values**



FR4 PCB, standard footprint

**Fig 4. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA123JT (SOT23); typical values**



FR4 PCB, standard footprint

**Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA123JU (SOT323); typical values**

## 7. Characteristics

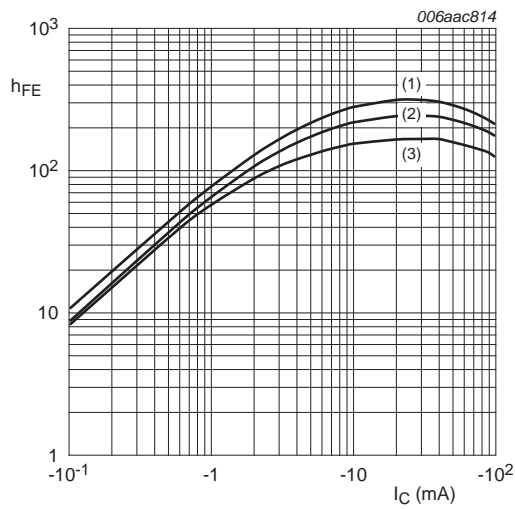
**Table 8. Characteristics**

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

| Symbol       | Parameter                            | Conditions  | Min  | Typ   | Max  | Unit |
|--------------|--------------------------------------|---|------|-------|------|------|
| $I_{CBO}$    | collector-base cut-off current       | $V_{CB} = -50\text{ V}; I_E = 0\text{ A}$                         | -    | -     | -100 | nA   |
| $I_{CEO}$    | collector-emitter cut-off current    | $V_{CE} = -30\text{ V}; I_B = 0\text{ A}$                         | -    | -     | -1   | μA   |
|              |                                      | $V_{CE} = -30\text{ V}; I_B = 0\text{ A}; T_j = 150\text{ °C}$    | -    | -     | -5   | μA   |
| $I_{EBO}$    | emitter-base cut-off current         | $V_{EB} = -5\text{ V}; I_C = 0\text{ A}$                          | -    | -     | -180 | μA   |
| $h_{FE}$     | DC current gain                      | $V_{CE} = -5\text{ V}; I_C = -10\text{ mA}$                       | 100  | -     | -    |      |
| $V_{CEsat}$  | collector-emitter saturation voltage | $I_C = -5\text{ mA}; I_B = -0.25\text{ mA}$                       | -    | -     | -100 | mV   |
| $V_{I(off)}$ | off-state input voltage              | $V_{CE} = -5\text{ V}; I_C = -100\text{ μA}$                      | -    | -0.6  | -0.5 | V    |
| $V_{I(on)}$  | on-state input voltage               | $V_{CE} = -0.3\text{ V}; I_C = -5\text{ mA}$                      | -1.1 | -0.75 | -    | V    |
| R1           | bias resistor 1 (input)              |   | 1.54 | 2.20  | 2.86 | kΩ   |
| R2/R1        | bias resistor ratio                  |   | 17   | 21    | 26   |      |
| $C_c$        | collector capacitance                | $V_{CB} = -10\text{ V}; I_E = I_e = 0\text{ A}; f = 1\text{ MHz}$ | -    | -     | 3    | pF   |
| $f_T$        | transition frequency                 | $V_{CE} = -5\text{ V}; I_C = -10\text{ mA}; f = 100\text{ MHz}$   | [1]  | -     | 180  | MHz  |

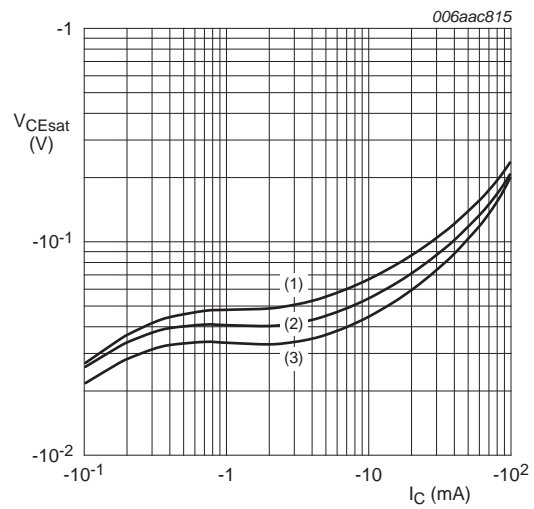
[1] Characteristics of built-in transistor.





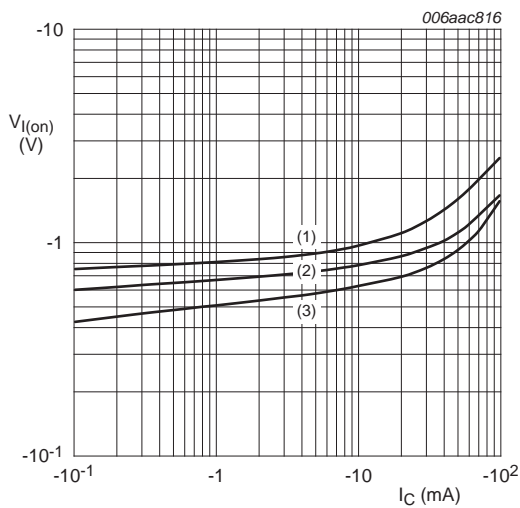
$V_{CE} = -5 \text{ V}$   
 (1)  $T_{amb} = 100 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = -40 \text{ }^\circ\text{C}$

**Fig 6. DC current gain as a function of collector current; typical values**



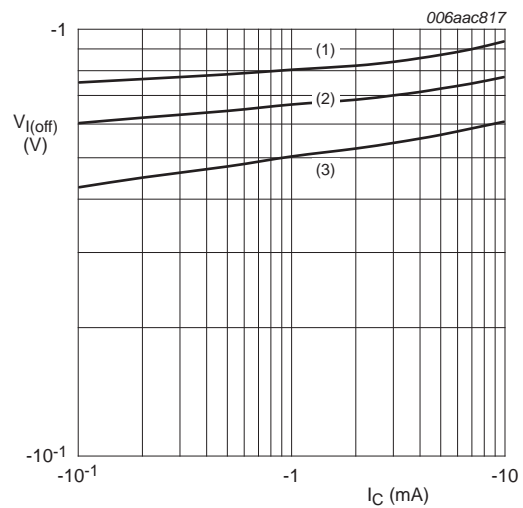
$I_C/I_B = 20$   
 (1)  $T_{amb} = 100 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = -40 \text{ }^\circ\text{C}$

**Fig 7. Collector-emitter saturation voltage as a function of collector current; typical values**



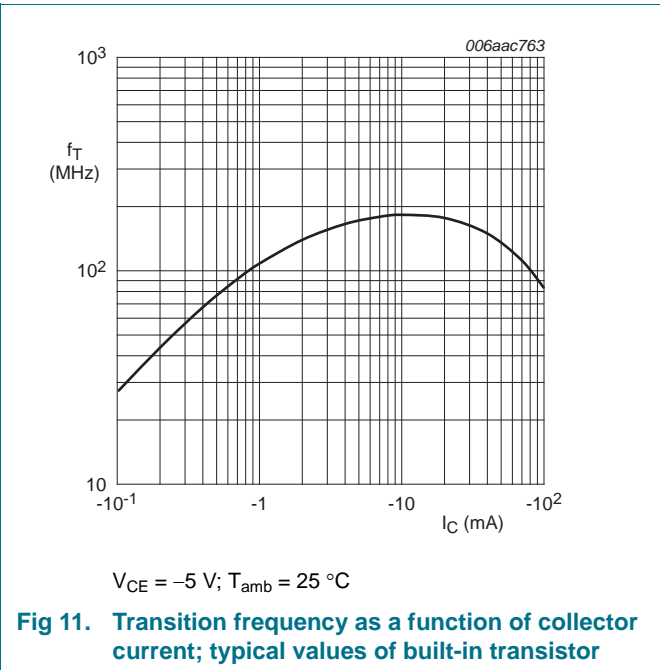
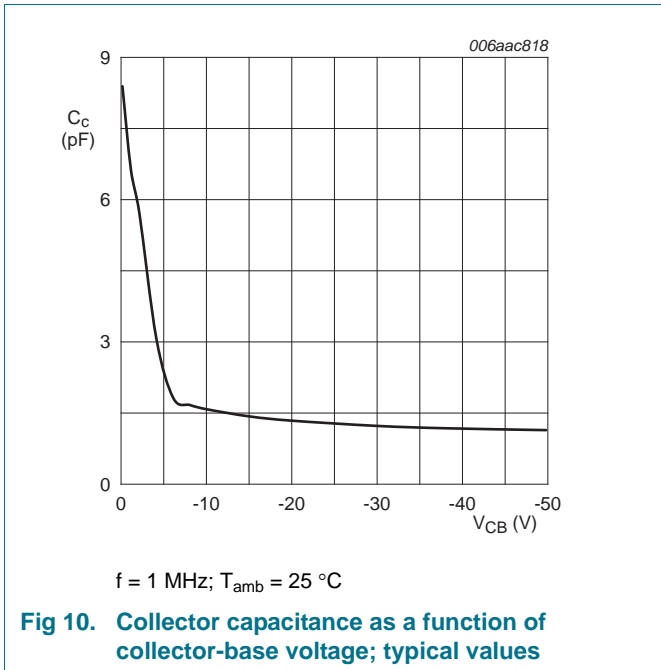
$V_{CE} = -0.3 \text{ V}$   
 (1)  $T_{amb} = -40 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = 100 \text{ }^\circ\text{C}$

**Fig 8. On-state input voltage as a function of collector current; typical values**



$V_{CE} = -5 \text{ V}$   
 (1)  $T_{amb} = -40 \text{ }^\circ\text{C}$   
 (2)  $T_{amb} = 25 \text{ }^\circ\text{C}$   
 (3)  $T_{amb} = 100 \text{ }^\circ\text{C}$

**Fig 9. Off-state input voltage as a function of collector current; typical values**

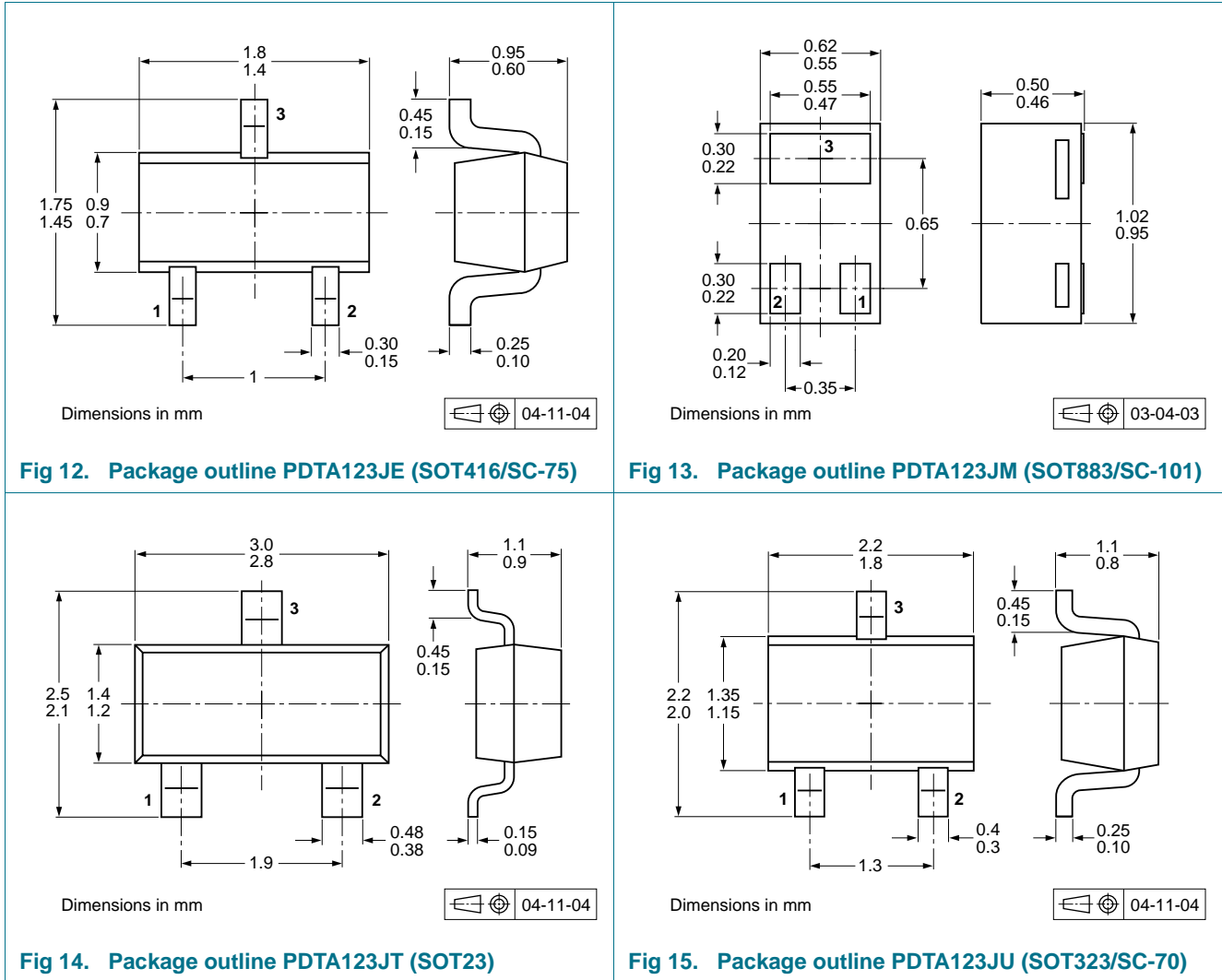


## 8. Test information

### 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**



**10. Packing information**

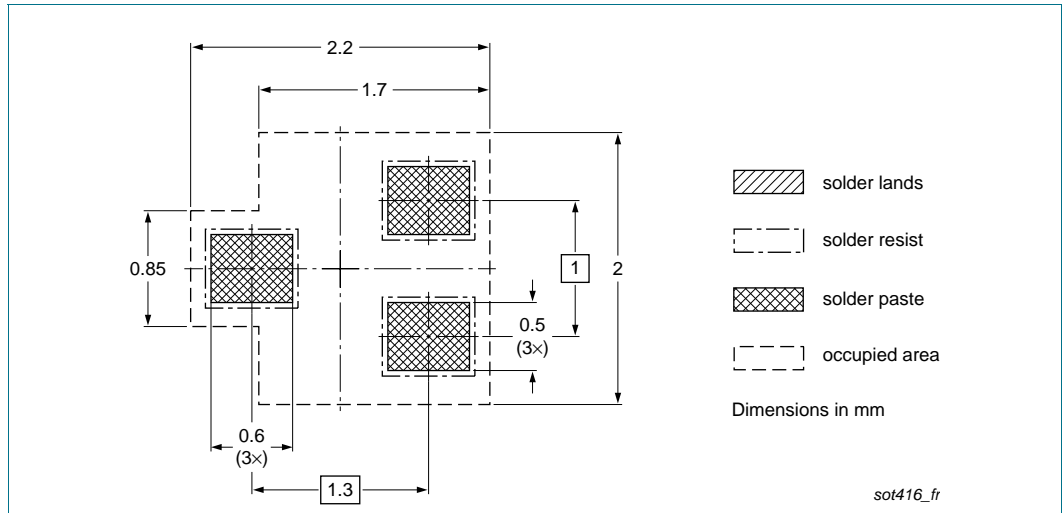
**Table 9. Packing methods**

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

| Type number | Package | Description                    | Packing quantity |       |
|-------------|---------|--------------------------------|------------------|-------|
|             |         |                                | 3000             | 10000 |
| PDTA123JE   | SOT416  | 4 mm pitch, 8 mm tape and reel | -115             | -135  |
| PDTA123JM   | SOT883  | 2 mm pitch, 8 mm tape and reel | -                | -315  |
| PDTA123JT   | SOT23   | 4 mm pitch, 8 mm tape and reel | -215             | -235  |
| PDTA123JU   | SOT323  | 4 mm pitch, 8 mm tape and reel | -115             | -135  |

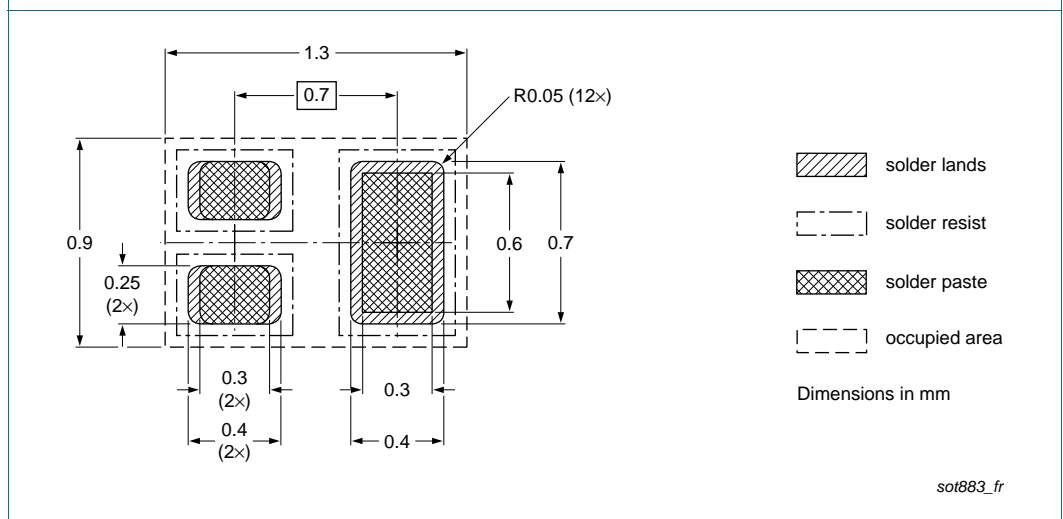
[1] For further information and the availability of packing methods, see [Section 14](#).

**11. Soldering**



Reflow soldering is the only recommended soldering method.

**Fig 16. Reflow soldering footprint PDTA123JE (SOT416/SC-75)**



Reflow soldering is the only recommended soldering method.

**Fig 17. Reflow soldering footprint PDTA123JM (SOT883/SC-101)**

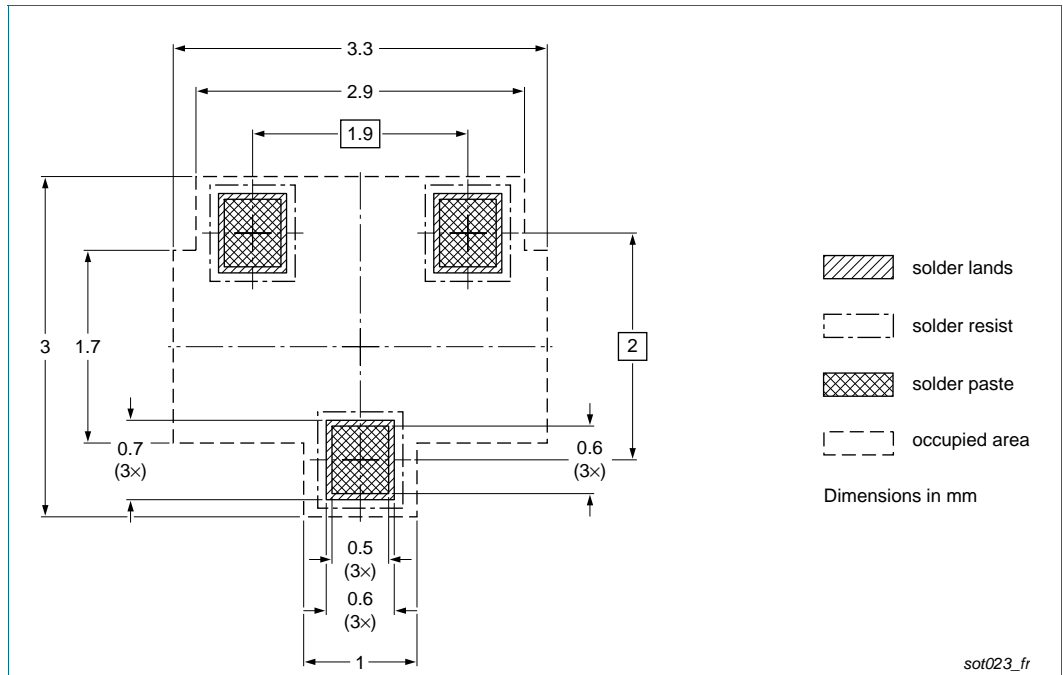


Fig 18. Reflow soldering footprint PDTA123JT (SOT23)

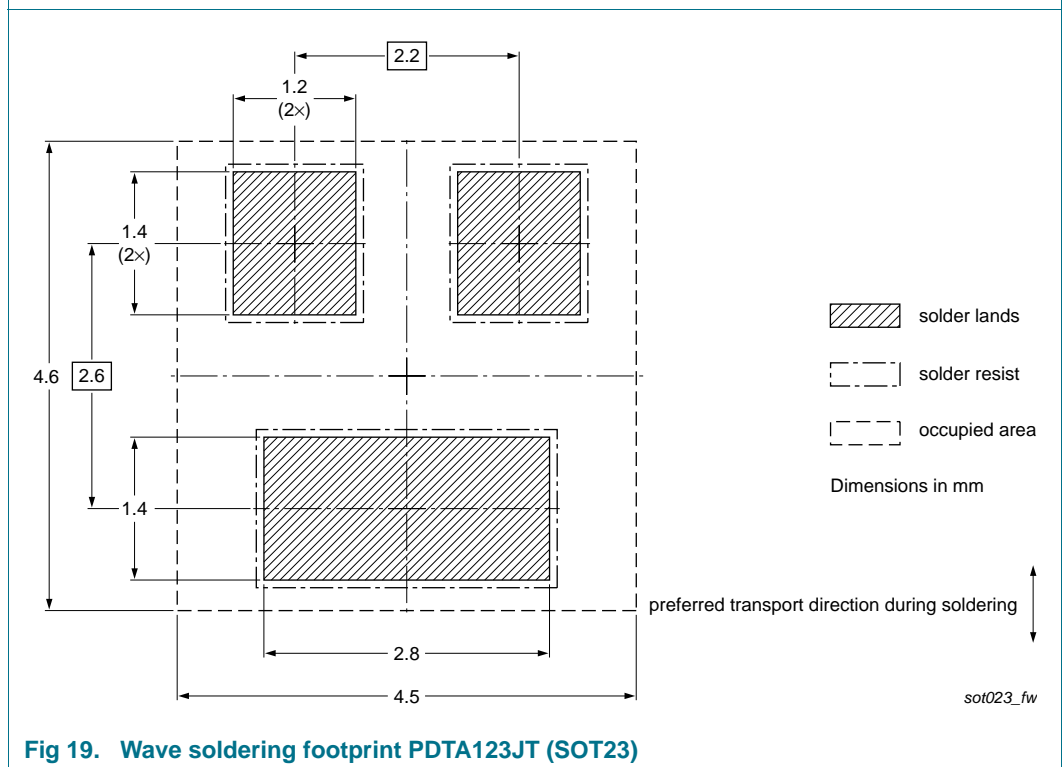


Fig 19. Wave soldering footprint PDTA123JT (SOT23)

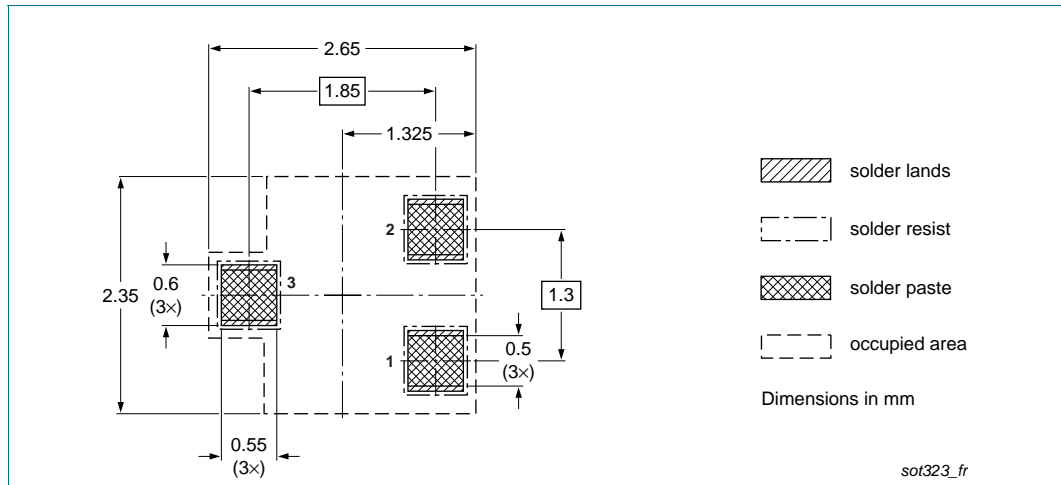


Fig 20. Reflow soldering footprint PDTA123JU (SOT323/SC-70)

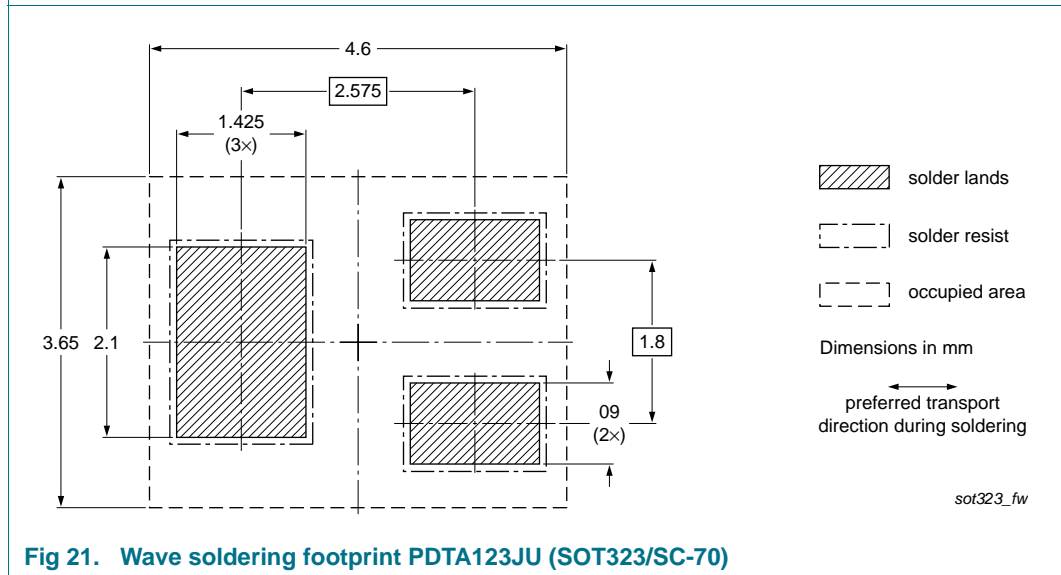


Fig 21. Wave soldering footprint PDTA123JU (SOT323/SC-70)

## 12. Revision history

**Table 10. Revision history**

| Document ID         | Release date  | Data sheet status     | Change notice | Supersedes          |
|---------------------|---|-----------------------|---------------|---------------------|
| PDTA123J_SER v.5    | 20111221  | Product data sheet    | -             | PDTA123J_SERIES v.4 |
| Modifications:      | <ul style="list-style-type: none"> <li>• The format of this data sheet has been redesigned to comply with the new identity guidelines of NXP Semiconductors.</li> <li>• Legal texts have been adapted to the new company name where appropriate.</li> <li>• Type numbers PDTA123JEF, PDTA123JK and PDTA123JS removed</li> <li>• <a href="#">Section 1 “Product profile”</a>: amended</li> <li>• <a href="#">Figure 1 to 11</a>: added</li> <li>• <a href="#">Table 8 “Characteristics”</a>: <math>V_{i(on)}</math> redefined to <math>V_{I(on)}</math> on-state input voltage, <math>V_{i(off)}</math> redefined to <math>V_{I(off)}</math> off-state input voltage, <math>I_{CEO}</math> updated and <math>f_T</math> added</li> <li>• <a href="#">Figure 12, 13, 14 and 15</a>: superseded by minimized package outline drawings</li> <li>• <a href="#">Section 8 “Test information”</a>: added</li> <li>• <a href="#">Section 10 “Packing information”</a>: added</li> <li>• <a href="#">Section 11 “Soldering”</a>: added</li> <li>• <a href="#">Section 13 “Legal information”</a>: updated</li> </ul> |                       |               |                     |
| PDTA123J_SERIES v.4 | 20040802  | Product data sheet    | -             | PDTA123J_SERIES v.3 |
| PDTA123J_SERIES v.3 | 20030414  | Product specification | -             | -                   |

## 13. Legal information

### 13.1 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.nxp.com>.

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**Quick reference data** — The Quick reference data is an extract of the product data given in the Limiting values and Characteristics sections of this document, and as such is not complete, exhaustive or legally binding.

## 13.4 Trademarks

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## 14. Contact information

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## 15. Contents

|           |                                      |           |
|-----------|--------------------------------------|-----------|
| <b>1</b>  | <b>Product profile</b> .....         | <b>1</b>  |
| 1.1       | General description .....            | 1         |
| 1.2       | Features and benefits .....          | 1         |
| 1.3       | Applications .....                   | 1         |
| 1.4       | Quick reference data .....           | 1         |
| <b>2</b>  | <b>Pinning information</b> .....     | <b>2</b>  |
| <b>3</b>  | <b>Ordering information</b> .....    | <b>2</b>  |
| <b>4</b>  | <b>Marking</b> .....                 | <b>2</b>  |
| <b>5</b>  | <b>Limiting values</b> .....         | <b>3</b>  |
| <b>6</b>  | <b>Thermal characteristics</b> ..... | <b>4</b>  |
| <b>7</b>  | <b>Characteristics</b> .....         | <b>7</b>  |
| <b>8</b>  | <b>Test information</b> .....        | <b>9</b>  |
| 8.1       | Quality information .....            | 9         |
| <b>9</b>  | <b>Package outline</b> .....         | <b>10</b> |
| <b>10</b> | <b>Packing information</b> .....     | <b>10</b> |
| <b>11</b> | <b>Soldering</b> .....               | <b>11</b> |
| <b>12</b> | <b>Revision history</b> .....        | <b>14</b> |
| <b>13</b> | <b>Legal information</b> .....       | <b>15</b> |
| 13.1      | Data sheet status .....              | 15        |
| 13.2      | Definitions .....                    | 15        |
| 13.3      | Disclaimers .....                    | 15        |
| 13.4      | Trademarks .....                     | 16        |
| <b>14</b> | <b>Contact information</b> .....     | <b>16</b> |
| <b>15</b> | <b>Contents</b> .....                | <b>17</b> |

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Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
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- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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