

# PDTA143Z series

PNP resistor-equipped transistors;  
R1 = 4.7 k $\Omega$ , R2 = 47 k $\Omega$

Rev. 7 — 5 December 2011

Product data sheet

## 1. Product profile

### 1.1 General description

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

Table 1. Product overview

| Type number | Package  |        |          | NPN complement | Package configuration |
|-------------|----------|--------|----------|----------------|-----------------------|
|             | Nexperia | JEITA  | JEDEC    |                |                       |
| PDTA143ZE   | SOT416   | SC-75  | -        | PDTC143ZE      | ultra small           |
| PDTA143ZM   | SOT883   | SC-101 | -        | PDTC143ZM      | leadless ultra small  |
| PDTA143ZT   | SOT23    | -      | TO-236AB | PDTC143ZT      | small                 |
| PDTA143ZU   | SOT323   | SC-70  | -        | PDTC143ZU      | 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 applications in automotive and industrial segments
- Control of IC inputs
- Cost-saving alternative for BC847/857 series in digital applications
- Switching loads

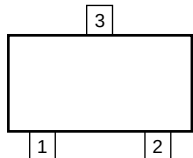
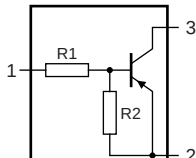
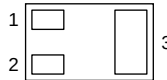
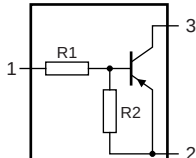
### 1.4 Quick reference data

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)   |            | 3.3 | 4.7 | 6.1  | k $\Omega$ |
| R2/R1            | bias resistor ratio       |            | 8   | 10  | 12   |            |

## 2. Pinning information

Table 3. Pinning

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

## 3. Ordering information

Table 4. Ordering information

| Type number | Package |                                                                               |         |
|-------------|---------|-------------------------------------------------------------------------------|---------|
|             | Name    | Description                                                                   | Version |
| PDTA143ZE   | SC-75   | plastic surface-mounted package; 3 leads                                      | SOT416  |
| PDTA143ZM   | SC-101  | leadless ultra small plastic package; 3 solder lands; body 1.0 × 0.6 × 0.5 mm | SOT883  |
| PDTA143ZT   | -       | plastic surface-mounted package; 3 leads                                      | SOT23   |
| PDTA143ZU   | SC-70   | plastic surface-mounted package; 3 leads                                      | SOT323  |

## 4. Marking

Table 5. Marking codes

| Type number | Marking code <sup>[1]</sup> |
|-------------|-----------------------------|
| PDTA143ZE   | 37                          |
| PDTA143ZM   | DP                          |
| PDTA143ZT   | *19                         |
| PDTA143ZU   | *47                         |

[1] \* = placeholder for manufacturing site code

## 5. Limiting values

**Table 6. Limiting values**

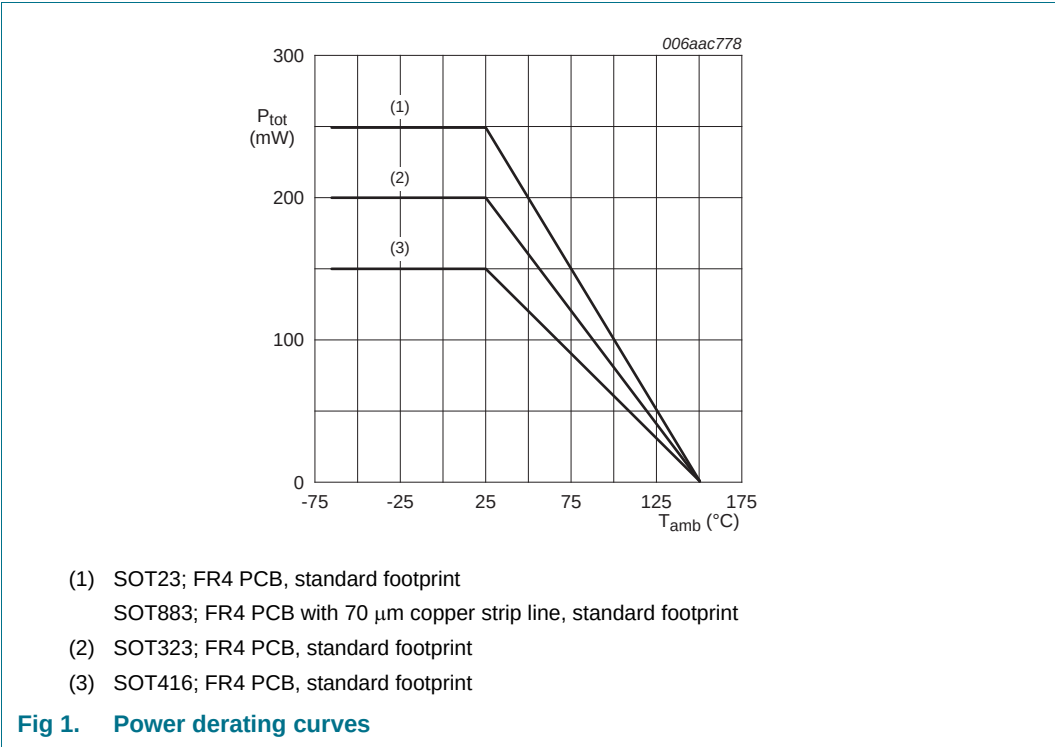
*In accordance with the Absolute Maximum Rating System (IEC 60134).*

| Symbol    | Parameter                 | Conditions                       | Min | Max  | Unit |
|-----------|---------------------------|----------------------------------|-----|------|------|
| $V_{CBO}$ | collector-base voltage    | open emitter                     | -   | -50  | V    |
| $V_{CEO}$ | collector-emitter voltage | open base                        | -   | -50  | V    |
| $V_{EBO}$ | emitter-base voltage      | open collector                   | -   | -5   | V    |
| $V_I$     | input voltage             |                                  |     |      |      |
|           | positive                  |                                  | -   | +5   | V    |
|           | negative                  |                                  | -   | -30  | V    |
| $I_O$     | output current            |                                  | -   | -100 | mA   |
| $I_{CM}$  | peak collector current    | single pulse;<br>$t_p \leq 1$ ms | -   | -100 | mA   |
| $P_{tot}$ | total power dissipation   | $T_{amb} \leq 25$ °C             |     |      |      |
|           | PDTA143ZE (SOT416)        | [1][2]                           | -   | 150  | mW   |
|           | PDTA143ZM (SOT883)        | [2][3]                           | -   | 250  | mW   |
|           | PDTA143ZT (SOT23)         | [1]                              | -   | 250  | mW   |
|           | PDTA143ZU (SOT323)        | [1]                              | -   | 200  | 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] Reflow soldering is the only recommended soldering method.

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

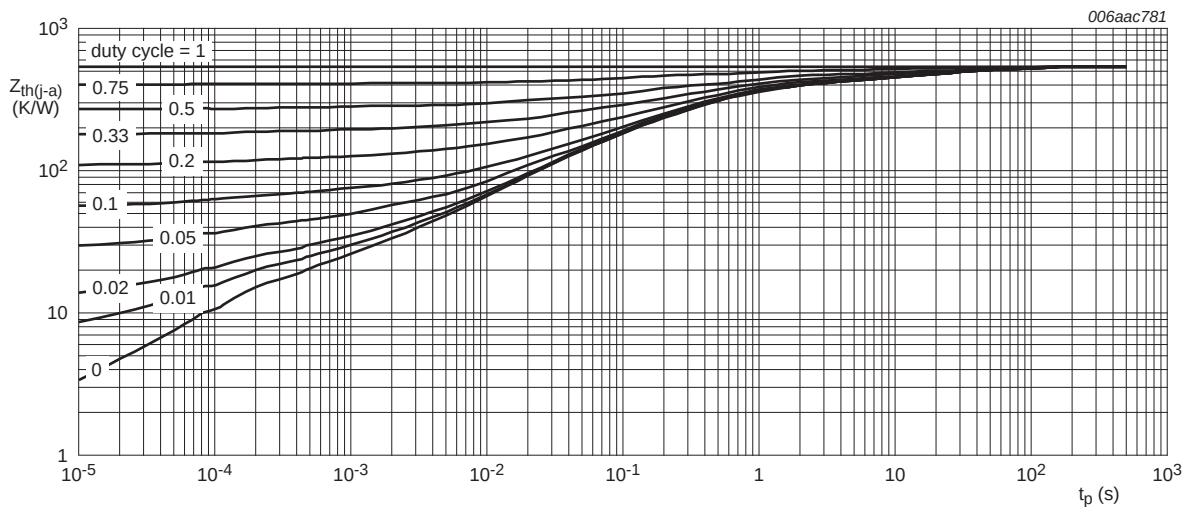


6. Thermal characteristics

Table 7. Thermal characteristics

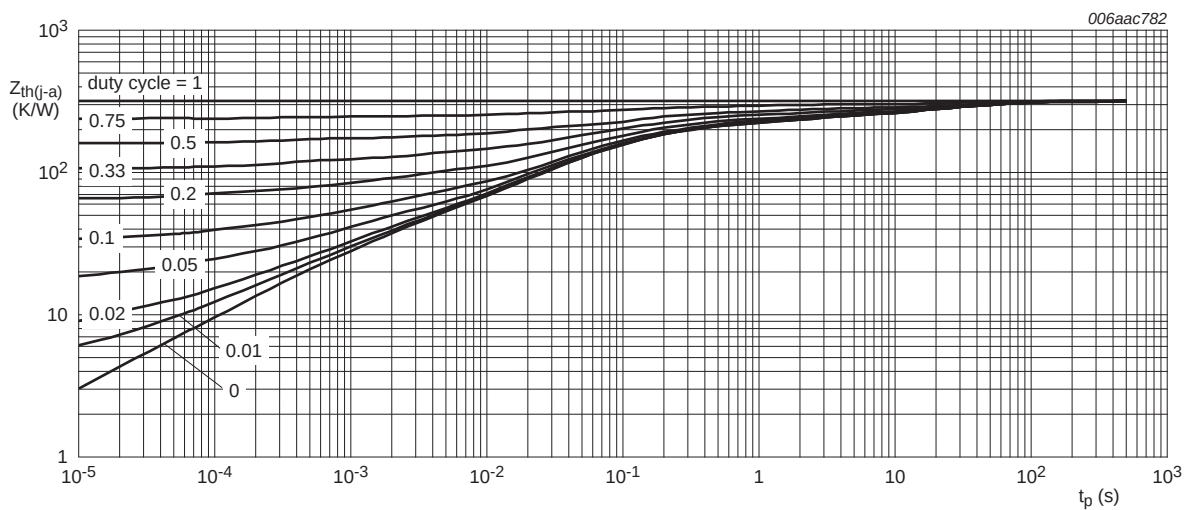
| Symbol        | Parameter                                   | Conditions  | Min | Typ | Max | Unit |
|---------------|---------------------------------------------|-------------|-----|-----|-----|------|
| $R_{th(j-a)}$ | thermal resistance from junction to ambient | in free air |     |     |     |      |
|               | PDTA143ZE (SOT416)                          | [1][2]      | -   | -   | 830 | K/W  |
|               | PDTA143ZM (SOT883)                          | [2][3]      | -   | -   | 500 | K/W  |
|               | PDTA143ZT (SOT23)                           | [1]         | -   | -   | 500 | K/W  |
|               | PDTA143ZU (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.



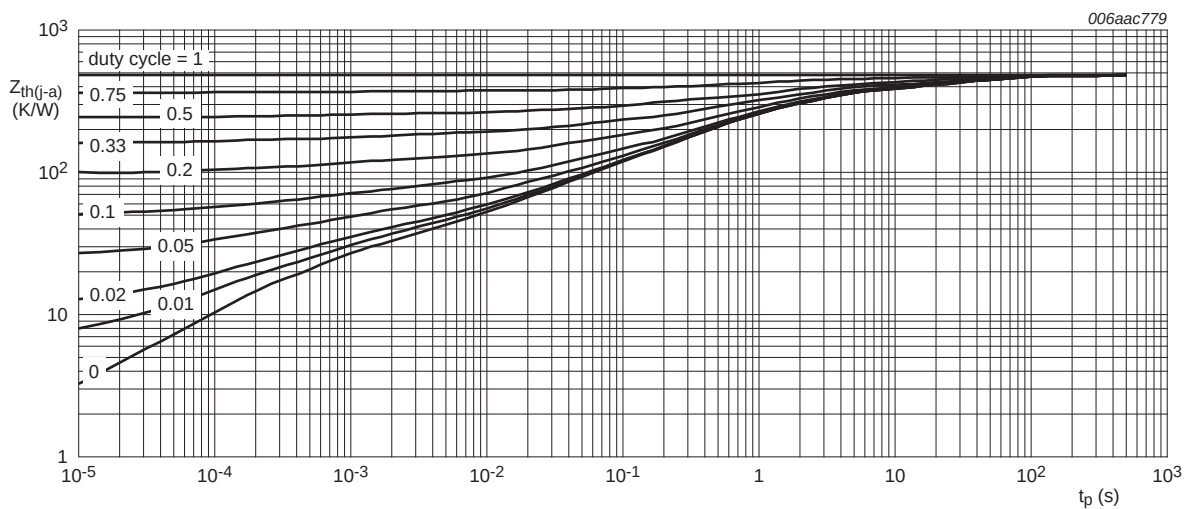
FR4 PCB, standard footprint

Fig 2. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA143ZE (SOT416); typical values



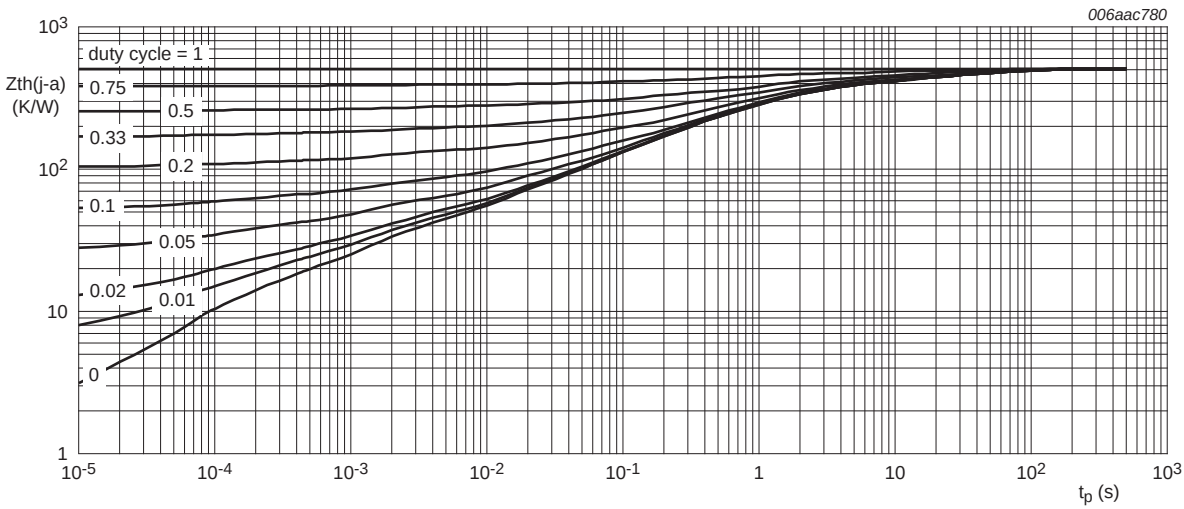
FR4 PCB, 70 μm copper strip line

Fig 3. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA143ZM (SOT883); typical values



FR4 PCB, standard footprint

Fig 4. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA143ZT (SOT23); typical values



FR4 PCB, standard footprint

Fig 5. Transient thermal impedance from junction to ambient as a function of pulse duration for PDTA143ZU (SOT323); typical values

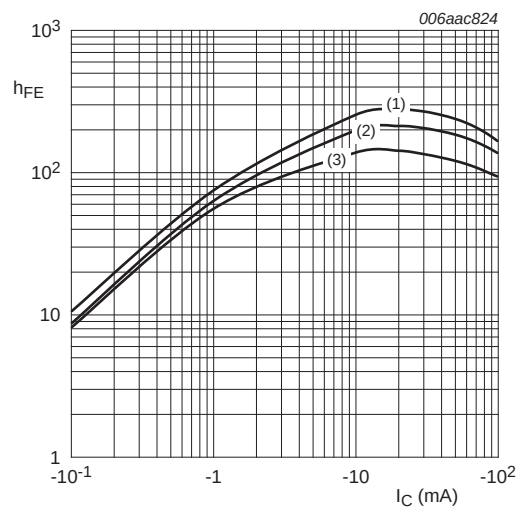
## 7. Characteristics

**Table 8. Characteristics**

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

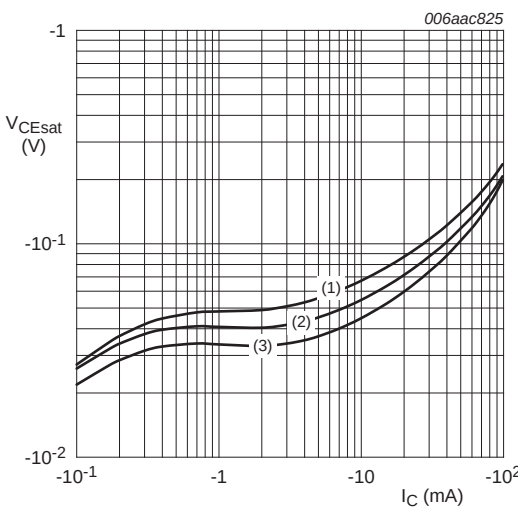
| Symbol       | Parameter                            | Conditions                                                                                   | Min  | Typ  | Max  | Unit          |
|--------------|--------------------------------------|----------------------------------------------------------------------------------------------|------|------|------|---------------|
| $I_{CBO}$    | collector-base cut-off current       | $V_{CB} = -50\text{ V}$ ; $I_E = 0\text{ A}$                                                 | -    | -    | -100 | nA            |
| $I_{CEO}$    | collector-emitter cut-off current    | $V_{CE} = -30\text{ V}$ ; $I_B = 0\text{ A}$                                                 | -    | -    | -1   | $\mu\text{A}$ |
|              |                                      | $V_{CE} = -30\text{ V}$ ; $I_B = 0\text{ A}$ ;<br>$T_j = 150\text{ }^{\circ}\text{C}$        | -    | -    | -5   | $\mu\text{A}$ |
| $I_{EBO}$    | emitter-base cut-off current         | $V_{EB} = -5\text{ V}$ ; $I_C = 0\text{ A}$                                                  | -    | -    | -170 | $\mu\text{A}$ |
| $h_{FE}$     | 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              | $V_{CE} = -5\text{ V}$ ; $I_C = -100\text{ }\mu\text{A}$                                     | -    | -0.6 | -0.5 | V             |
| $V_{I(on)}$  | on-state input voltage               | $V_{CE} = -0.3\text{ V}$ ; $I_C = -5\text{ mA}$                                              | -1.3 | -0.9 | -    | V             |
| R1           | bias resistor 1 (input)              |                                                                                              | 3.3  | 4.7  | 6.1  | k $\Omega$    |
| R2/R1        | bias resistor ratio                  |                                                                                              | 8    | 10   | 12   |               |
| $C_c$        | collector capacitance                | $V_{CB} = -10\text{ V}$ ; $I_E = i_e = 0\text{ A}$ ;<br>$f = 1\text{ MHz}$                   | -    | -    | 3    | pF            |
| $f_T$        | transition frequency                 | $V_{CE} = -5\text{ V}$ ; $I_C = -10\text{ mA}$ ; <a href="#">[1]</a><br>$f = 100\text{ MHz}$ | -    | 180  | -    | MHz           |

[1] Characteristics of built-in transistor



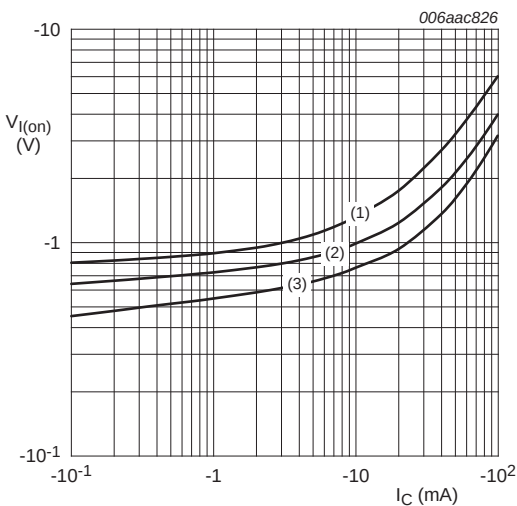
$V_{CE} = -5\text{ V}$   
(1)  $T_{amb} = 100\text{ °C}$   
(2)  $T_{amb} = 25\text{ °C}$   
(3)  $T_{amb} = -40\text{ °C}$

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



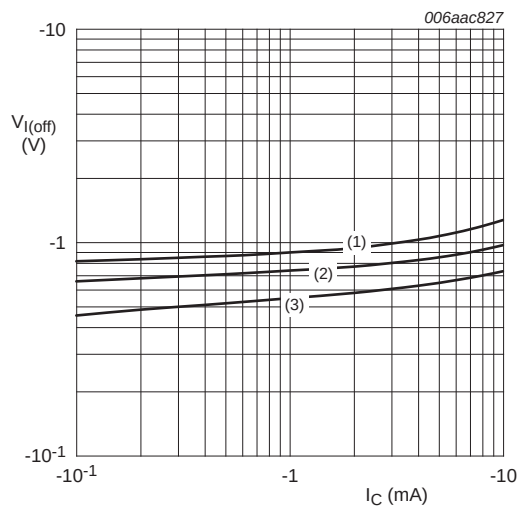
$I_C/I_B = 20$   
(1)  $T_{amb} = 100\text{ °C}$   
(2)  $T_{amb} = 25\text{ °C}$   
(3)  $T_{amb} = -40\text{ °C}$

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



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

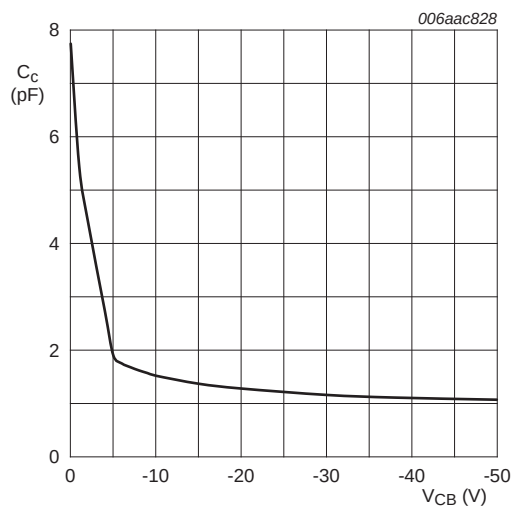
Fig 8. On-state input voltage as a function of collector current; typical values



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

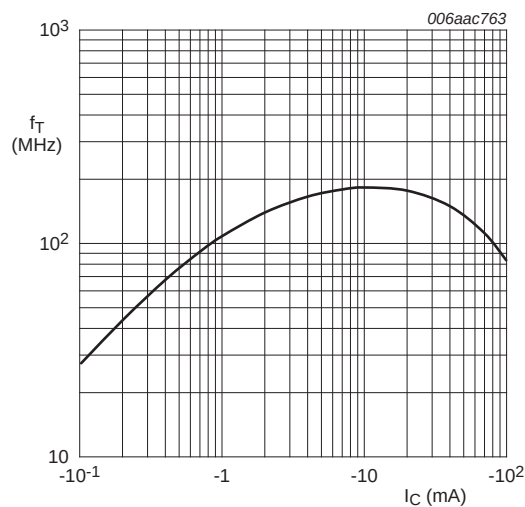
Fig 9. Off-state input voltage as a function of collector current; typical values





$f = 1\text{ MHz}$ ;  $T_{amb} = 25\text{ °C}$

Fig 10. Collector capacitance as a function of collector-base voltage; typical values



$V_{CE} = -5\text{ V}$ ;  $T_{amb} = 25\text{ °C}$

Fig 11. Transition frequency as a function of collector current; typical values of built-in transistor

## 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

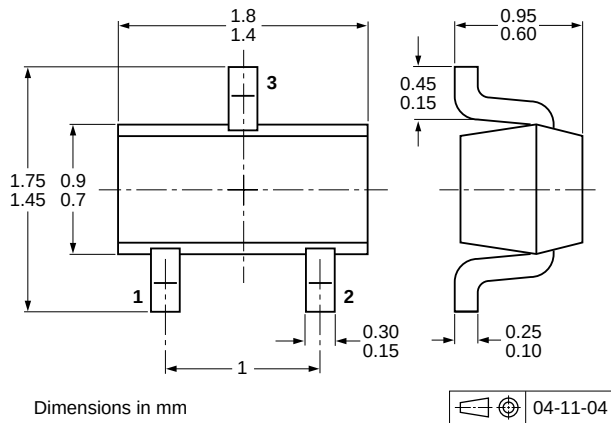


Fig 12. Package outline PDTA143ZE (SOT416/SC-75)

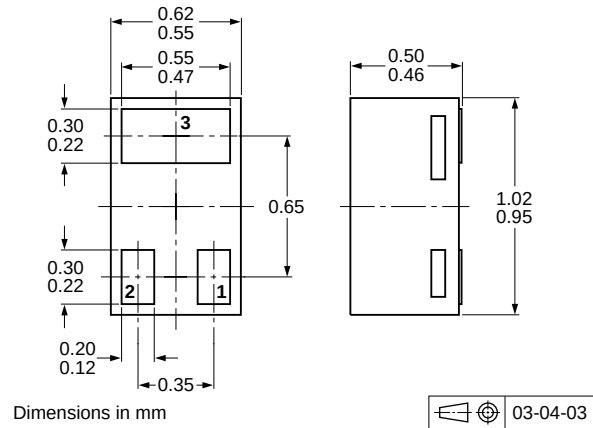


Fig 13. Package outline PDTA143ZM (SOT883/SC-101)

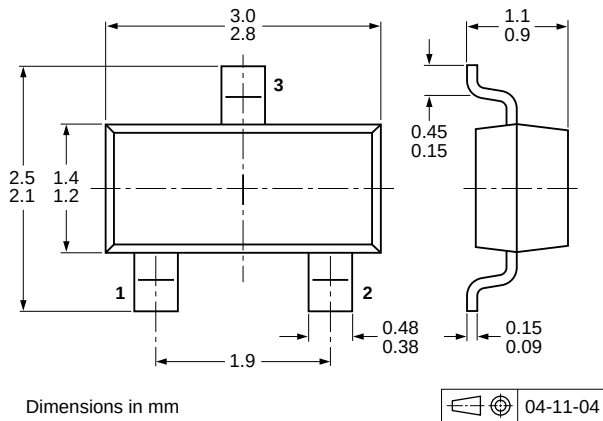


Fig 14. Package outline PDTA143ZT (SOT23)

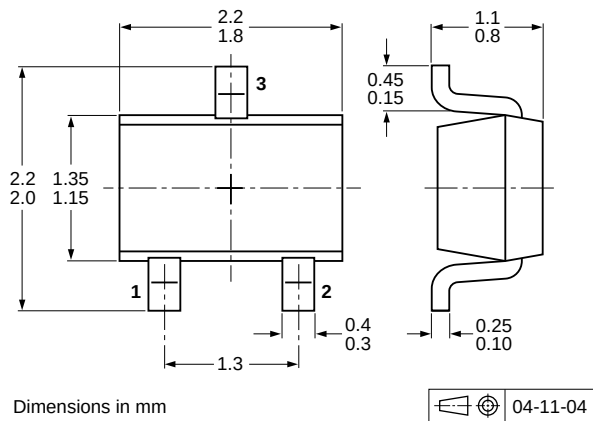


Fig 15. Package outline PDTA143ZU (SOT323/SC-70)

## 10. Packing information

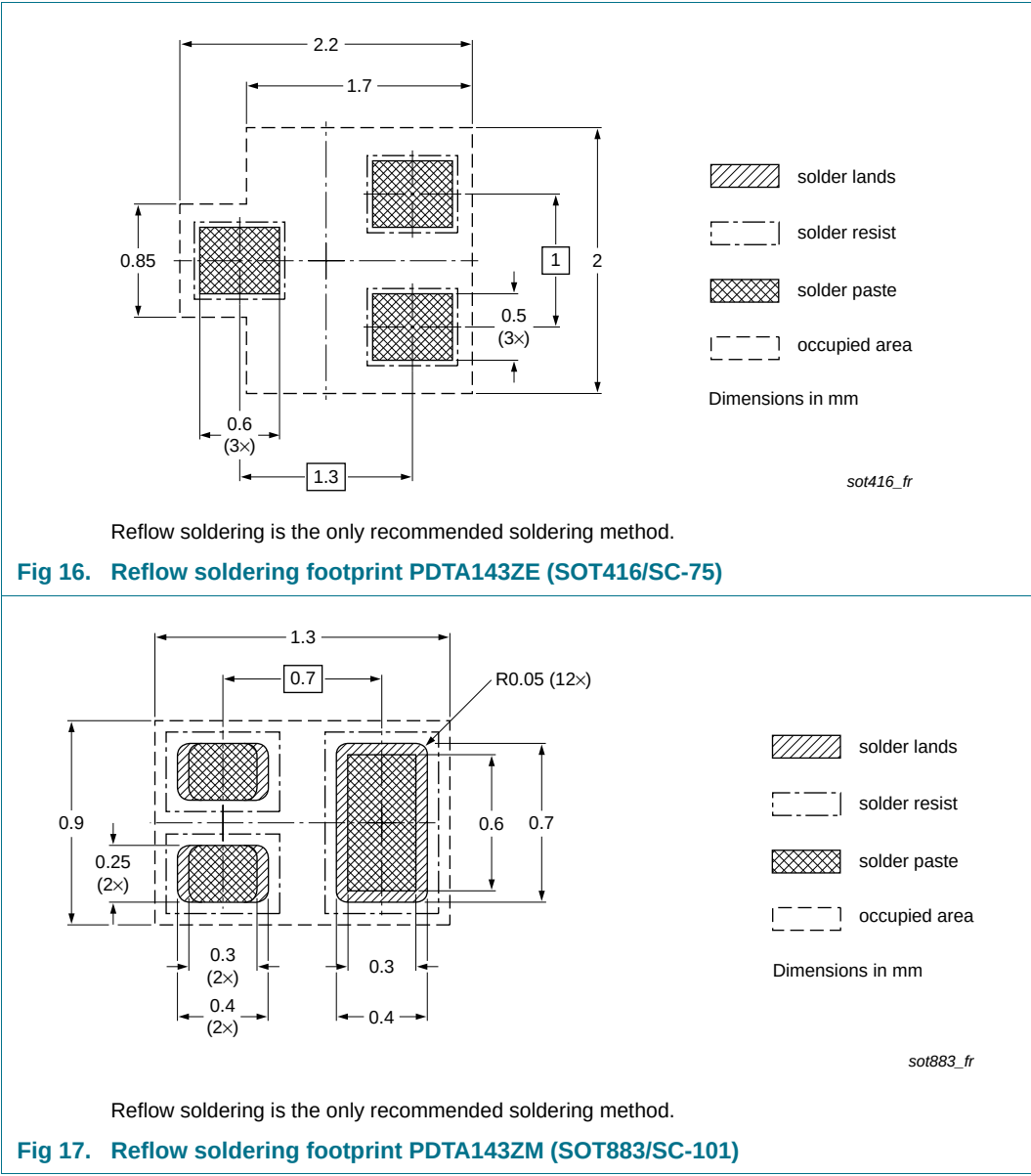
Table 9. Packing methods

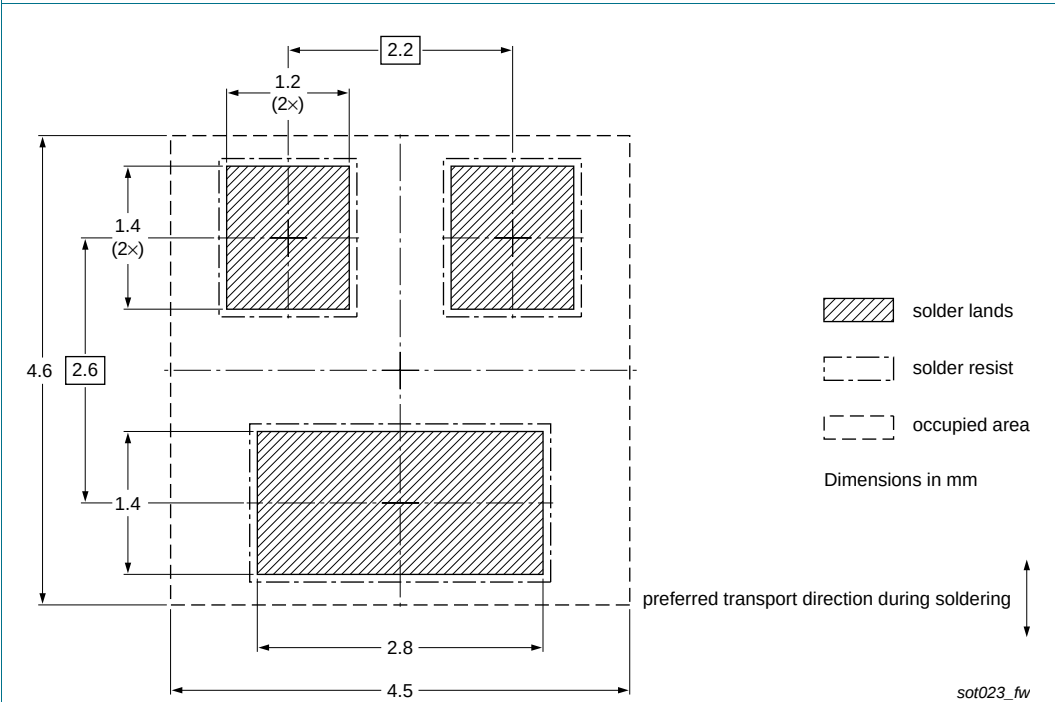
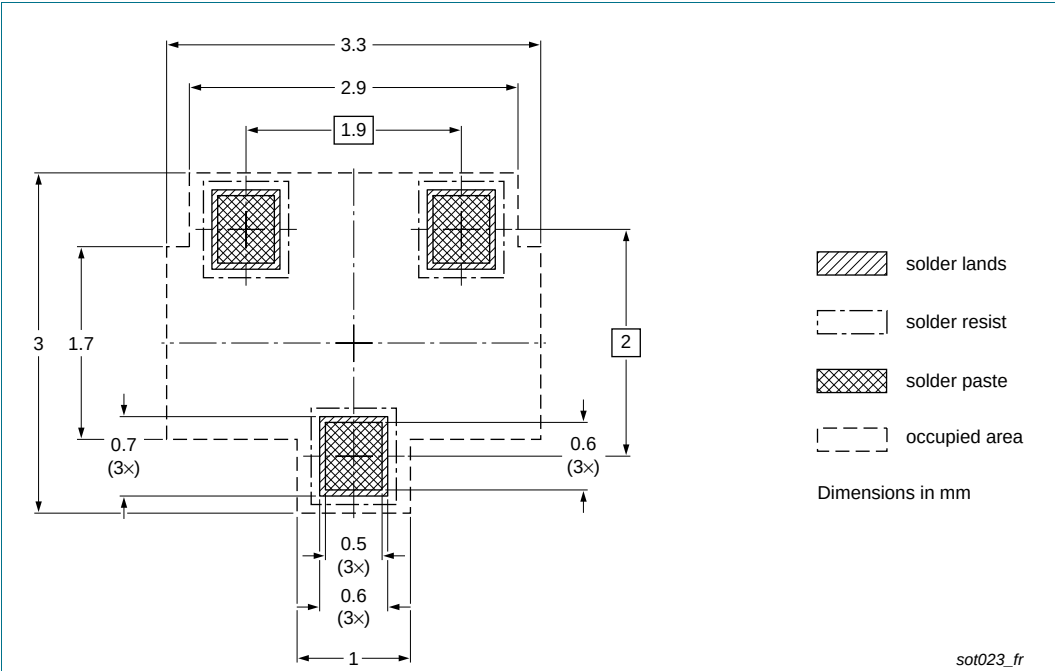
The indicated -xxx are the last three digits of the 12NC ordering code.<sup>[1]</sup>

| Type number | Package | Description                    | Packing quantity |      |       |
|-------------|---------|--------------------------------|------------------|------|-------|
|             |         |                                | 3000             | 5000 | 10000 |
| PDTA143ZE   | SOT416  | 4 mm pitch, 8 mm tape and reel | -115             | -    | -135  |
| PDTA143ZM   | SOT883  | 2 mm pitch, 8 mm tape and reel | -                | -    | -315  |
| PDTA143ZT   | SOT23   | 4 mm pitch, 8 mm tape and reel | -215             | -    | -235  |
| PDTA143ZU   | 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





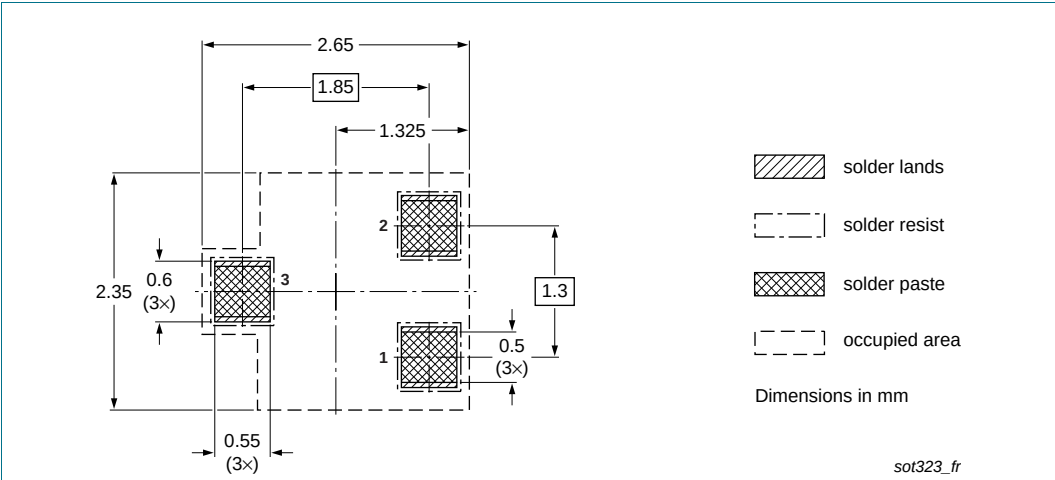


Fig 20. Reflow soldering footprint PDTA143ZU (SOT323/SC-70)

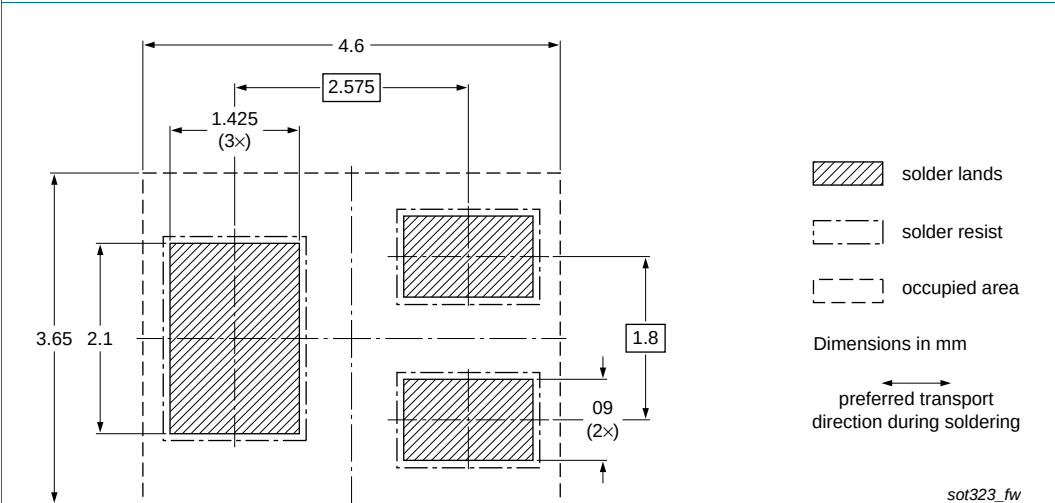


Fig 21. Wave soldering footprint PDTA143ZU (SOT323/SC-70)

## 12. Revision history

Table 10. Revision history

| Document ID         | Release date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Data sheet status     | Change notice | Supersedes          |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|---------------|---------------------|
| PDTA143Z_SER v.7    | 20111205                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Product data sheet    | -             | PDTA143Z_SERIES v.6 |
| Modifications:      | <ul style="list-style-type: none"> <li>The format of this document 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 PDTA143ZEF, PDTA143ZK and PDTA143ZS removed.</li> <li><a href="#">Section 1 "Product profile"</a>: updated</li> <li><a href="#">Section 3 "Ordering information"</a>: added</li> <li><a href="#">Section 4 "Marking"</a>: updated</li> <li><a href="#">Figure 1</a> to <a href="#">11</a>: added</li> <li><a href="#">Section 6 "Thermal characteristics"</a>: updated</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, <math>f_T</math> added</li> <li><a href="#">Section 8 "Test information"</a>: added</li> <li><a href="#">Section 9 "Package outline"</a>: superseded by minimized package outline drawings</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> |                       |               |                     |
| PDTA143Z_SERIES v.6 | 20040805                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Product data sheet    | -             | PDTA143Z_SERIES v.5 |
| PDTA143Z_SERIES v.5 | 20030908                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Product specification | -             | PDTA143Z_SERIES v.4 |
| PDTA143Z_SERIES v.4 | 20030410                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 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.nexperia.com>.

### 13.2 Definitions

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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

Notice: All referenced brands, product names, service names and trademarks are the property of their respective owners.

## 14. Contact information

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For more information, please visit: <http://www.nexperia.com>

For sales office addresses, please send an email to: [salesaddresses@nexperia.com](mailto:salesaddresses@nexperia.com)



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Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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