

BAS16 series

High-speed switching diodes

Rev. 6 — 24 September 2014

Product data sheet

1. Product profile

1.1 General description

High-speed switching diodes, encapsulated in small Surface-Mounted Device (SMD) plastic packages.

Table 1. Product overview

| Type number | Package | | | Configuration | Package configuration |
|-------------|----------|-------|----------|-----------------|---------------------------|
| | Nexperia | JEITA | JEDEC | | |
| BAS16 | SOT23 | - | TO-236AB | single | small |
| BAS16H | SOD123F | - | - | single | small and flat lead |
| BAS16J | SOD323F | SC-90 | - | single | very small and flat lead |
| BAS16L | SOD882 | - | - | single | leadless ultra small |
| BAS16T | SOT416 | SC-75 | - | single | ultra small |
| BAS16VV | SOT666 | - | - | triple isolated | ultra small and flat lead |
| BAS16VY | SOT363 | SC-88 | - | triple isolated | very small |
| BAS16W | SOT323 | SC-70 | - | single | very small |
| BAS316 | SOD323 | SC-76 | - | single | very small |
| BAS516 | SOD523 | SC-79 | - | single | ultra small and flat lead |

1.2 Features and benefits

- High switching speed: $t_{rr} \leq 4$ ns
- Low leakage current
- Repetitive peak reverse voltage: $V_{RRM} \leq 100$ V
- AEC-Q101 qualified
- Low capacitance
- Reverse voltage: $V_R \leq 100$ V
- Small SMD plastic packages

1.3 Applications

- High-speed switching
- General-purpose switching

1.4 Quick reference data

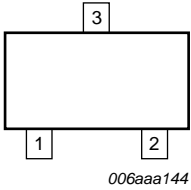
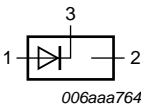
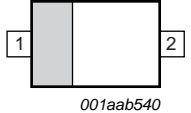
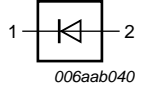
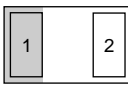
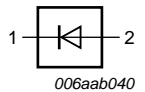
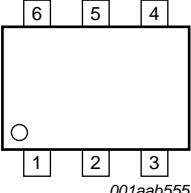
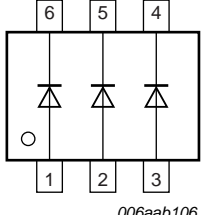
Table 2. Quick reference data

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------|-----------------------|--|-----|-----|-----|---------------|
| Per diode | | | | | | |
| V_R | reverse voltage | | - | - | 100 | V |
| I_R | reverse current | $V_R = 80\text{ V}$ | - | - | 0.5 | μA |
| t_{rr} | reverse recovery time | $I_F = 10\text{ mA}$; $I_R = 10\text{ mA}$; $R_L = 100\ \Omega$; $I_{R(meas)} = 1\text{ mA}$ | - | - | 4 | ns |

2. Pinning information

Table 3. Pinning

| Pin | Description | | Simplified outline | Graphic symbol |
|---------------------------------------|-------------------|-----|---|--|
| BAS16; BAS16T; BAS16W | | | | |
| 1 | anode | |  <p>006aaa144</p> |  <p>006aaa764</p> |
| 2 | not connected | | | |
| 3 | cathode | | | |
| BAS16H; BAS16J; BAS316; BAS516 | | | | |
| 1 | cathode | [1] |  <p>001aab540</p> |  <p>006aab040</p> |
| 2 | anode | | | |
| BAS16L | | | | |
| 1 | cathode | [1] |  <p>Transparent top view</p> |  <p>006aab040</p> |
| 2 | anode | | | |
| BAS16VV; BAS16VY | | | | |
| 1 | anode (diode 1) | |  <p>001aab555</p> |  <p>006aab106</p> |
| 2 | anode (diode 2) | | | |
| 3 | anode (diode 3) | | | |
| 4 | cathode (diode 3) | | | |
| 5 | cathode (diode 2) | | | |
| 6 | cathode (diode 1) | | | |

[1] The marking bar indicates the cathode.

3. Ordering information

Table 4. Ordering information

| Type number | Package | | Version |
|-------------|-----------|--|---------|
| | Name | Description | |
| BAS16 | TO-236AB | plastic surface-mounted package; 3 leads | SOT23 |
| BAS16H | - | plastic surface-mounted package; 2 leads | SOD123F |
| BAS16J | SC-90 | plastic surface-mounted package; 2 leads | SOD323F |
| BAS16L | DFN1006-2 | leadless ultra small plastic package; 2 terminals; body 1.0 × 0.6 × 0.5 mm | SOD882 |
| BAS16T | SC-75 | plastic surface-mounted package; 3 leads | SOT416 |
| BAS16VV | - | plastic surface-mounted package; 6 leads | SOT666 |
| BAS16VY | SC-88 | plastic surface-mounted package; 6 leads | SOT363 |
| BAS16W | SC-70 | plastic surface-mounted package; 3 leads | SOT323 |
| BAS316 | SC-76 | plastic surface-mounted package; 2 leads | SOD323 |
| BAS516 | SC-79 | plastic surface-mounted package; 2 leads | SOD523 |

4. Marking

Table 5. Marking codes

| Type number | Marking code ^[1] |
|-------------|-----------------------------|
| BAS16 | A6* |
| BAS16H | A1 |
| BAS16J | AR |
| BAS16L | S2 |
| BAS16T | A6 |
| BAS16VV | 53 |
| BAS16VY | 16* |
| BAS16W | A6* |
| BAS316 | A6 |
| BAS516 | 6 |

[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 |
|------------------|---------------------------------|------------|-----|-----|------|
| Per diode | | | | | |
| V_{RRM} | repetitive peak reverse voltage | | - | 100 | V |
| V_R | reverse voltage | | - | 100 | V |

Table 6. Limiting values ...continued
 In accordance with the Absolute Maximum Rating System (IEC 60134).

| Symbol | Parameter | Conditions | | Min | Max | Unit |
|-------------------|-------------------------------------|--|-----------|-----|------|------|
| I _F | forward current | | | | | |
| | BAS16 | | [1] | - | 215 | mA |
| | BAS16H BAS16L | | [2] | - | 215 | mA |
| | BAS16T | | [1] | - | 155 | mA |
| | BAS16VV BAS16VY | | [1][3] | - | 200 | mA |
| | BAS16W | | [1] | - | 175 | mA |
| | BAS16J BAS316 BAS516 | | [1] | - | 250 | mA |
| I _{FRM} | repetitive peak forward current | t _p ≤ 0.5 ms; δ ≤ 0.25 | | - | 500 | mA |
| I _{FSM} | non-repetitive peak forward current | square wave; T _{j(init)} = 25 °C | | | | |
| | | t _p = 1 μs | | - | 4 | A |
| | | t _p = 1 ms | | - | 1 | A |
| | | t _p = 1 s | | - | 0.5 | A |
| P _{tot} | total power dissipation | | | | | |
| | BAS16 | T _{amb} ≤ 25 °C | [1] | - | 250 | mW |
| | BAS16H | T _{amb} ≤ 25 °C | [2] | - | 380 | mW |
| | | | [5] | - | 830 | mW |
| | BAS16J | T _{amb} ≤ 25 °C | [5] | - | 550 | mW |
| | BAS16L | T _{amb} ≤ 25 °C | [2] | - | 250 | mW |
| | BAS16T | T _{sp} ≤ 90 °C | [1][4] | - | 170 | mW |
| | BAS16VV | T _{amb} ≤ 25 °C | [1][3] | - | 180 | mW |
| | BAS16VY | T _{sp} ≤ 85 °C | [1][3][6] | - | 250 | mW |
| | BAS16W | T _{amb} ≤ 25 °C | [1] | - | 200 | mW |
| | BAS316 | T _{sp} ≤ 90 °C | [1][4] | - | 400 | mW |
| BAS516 | T _{sp} ≤ 90 °C | [1][4] | - | 500 | mW | |
| Per device | | | | | | |
| 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] Device mounted on an FR4 PCB with 60 μm copper strip line.

[3] Single diode loaded.

[4] Soldering point of cathode tab.

[5] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm².

[6] Soldering points at pins 4, 5 and 6.

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 | | | | |
| | BAS16 | | [1] | - | - | 500 K/W |
| | BAS16H | | [2] | - | - | 330 K/W |
| | | | [3] | - | - | 150 K/W |
| | BAS16J | | [3] | - | - | 230 K/W |
| | BAS16L | | [2] | - | - | 500 K/W |
| | BAS16VV | | [2][4] | - | - | 700 K/W |
| | | | [3][4] | - | - | 410 K/W |
| BAS16W | | [1] | - | - | 625 K/W | |
| $R_{th(j-sp)}$ | thermal resistance from junction to solder point | | | | | |
| | BAS16 | | - | - | 330 K/W | |
| | BAS16H | | [5] | - | - | 70 K/W |
| | BAS16J | | [5] | - | - | 55 K/W |
| | BAS16T | | - | - | 350 K/W | |
| | BAS16VY | | [4][6] | - | - | 260 K/W |
| | BAS16W | | - | - | 300 K/W | |
| | BAS316 | | [5] | - | - | 150 K/W |
| | BAS516 | | [5] | - | - | 120 K/W |

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

[2] Device mounted on an FR4 PCB with 60 μm copper strip line.

[3] Device mounted on an FR4 PCB, single-sided copper, tin-plated, mounting pad for cathode 1 cm^2 .

[4] Single diode loaded.

[5] Soldering point of cathode tab.

[6] Soldering points at pins 4, 5 and 6.

7. Characteristics

Table 8. Characteristics

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

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------|---|---|-----|-----|------|---------------|
| Per diode | | | | | | |
| V_F | forward voltage | | [1] | | | |
| | | $I_F = 1\text{ mA}$ | - | - | 715 | mV |
| | | $I_F = 10\text{ mA}$ | - | - | 855 | mV |
| | | $I_F = 50\text{ mA}$ | - | - | 1 | V |
| I_R | reverse current | $V_R = 25\text{ V}$ | - | - | 30 | nA |
| | | $V_R = 80\text{ V}$ | - | - | 0.5 | μA |
| | | $V_R = 25\text{ V}; T_j = 150\text{ °C}$ | - | - | 30 | μA |
| | | $V_R = 80\text{ V}; T_j = 150\text{ °C}$ | - | - | 50 | μA |
| C_d | diode capacitance | $f = 1\text{ MHz}; V_R = 0\text{ V}$ | | | | |
| | BAS16; BAS16H; BAS16J; BAS16L; BAS16T; BAS16VV; BAS16VY; BAS16W; BAS316 | | - | - | 1.5 | pF |
| | BAS516 | | - | - | 1 | pF |
| t_{rr} | reverse recovery time | $I_F = 10\text{ mA}; I_R = 10\text{ mA};$ $R_L = 100\ \Omega;$ $I_{R(\text{meas})} = 1\text{ mA}$ | - | - | 4 | ns |
| V_{FR} | forward recovery voltage | $I_F = 10\text{ mA}; t_r = 20\text{ ns}$ | - | - | 1.75 | V |

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



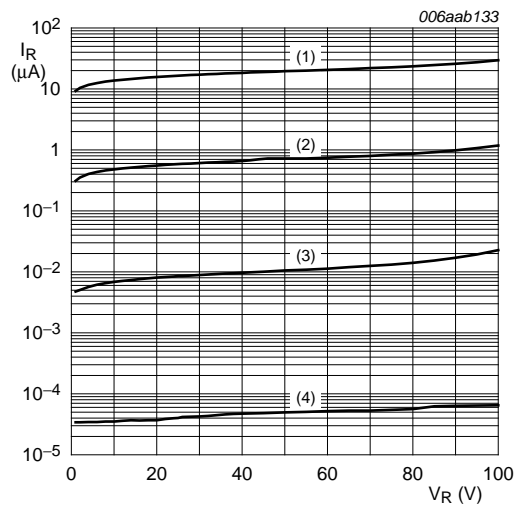
- (1) $T_{amb} = 150\text{ °C}$
- (2) $T_{amb} = 85\text{ °C}$
- (3) $T_{amb} = 25\text{ °C}$
- (4) $T_{amb} = -40\text{ °C}$

Fig 1. Forward current as a function of forward voltage; typical values



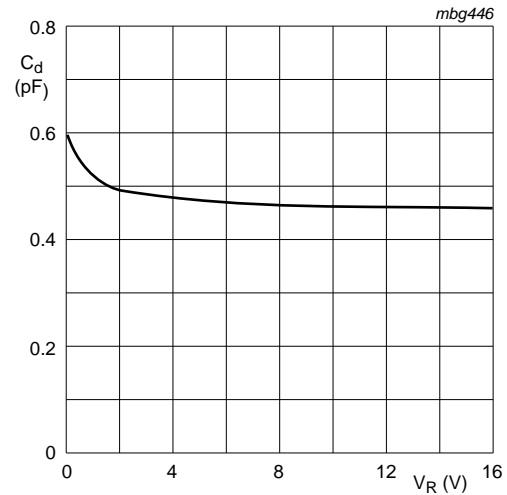
Based on square wave currents.
 $T_{j(init)} = 25\text{ °C}$

Fig 2. Non-repetitive peak forward current as a function of pulse duration; maximum values



- (1) $T_{amb} = 150\text{ °C}$
- (2) $T_{amb} = 85\text{ °C}$
- (3) $T_{amb} = 25\text{ °C}$
- (4) $T_{amb} = -40\text{ °C}$

Fig 3. Reverse current as a function of reverse voltage; typical values



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

Fig 4. Diode capacitance as a function of reverse voltage; typical values

8. Test information



(1) $I_R = 1 \text{ mA}$

Input signal: reverse pulse rise time $t_r = 0.6 \text{ ns}$; reverse voltage pulse duration $t_p = 100 \text{ ns}$; duty cycle $\delta = 0.05$

Oscilloscope: rise time $t_r = 0.35 \text{ ns}$

Fig 5. Reverse recovery time test circuit and waveforms



Input signal: forward pulse rise time $t_r = 20 \text{ ns}$; forward current pulse duration $t_p \geq 100 \text{ ns}$; duty cycle $\delta \leq 0.005$

Fig 6. Forward recovery voltage test circuit and waveforms

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

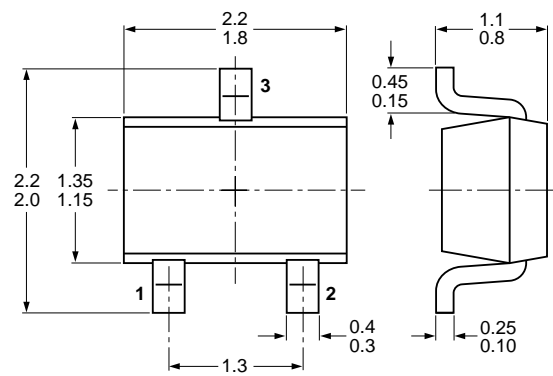




Dimensions in mm



Fig 13. Package outline BAS16VY (SOT363)



Dimensions in mm

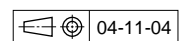


Fig 14. Package outline BAS16W (SOT323/SC-70)



Dimensions in mm



Fig 15. Package outline BAS316 (SOD323/SC-76)



Dimensions in mm

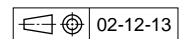


Fig 16. Package outline BAS516 (SOD523/SC-79)

10. Soldering

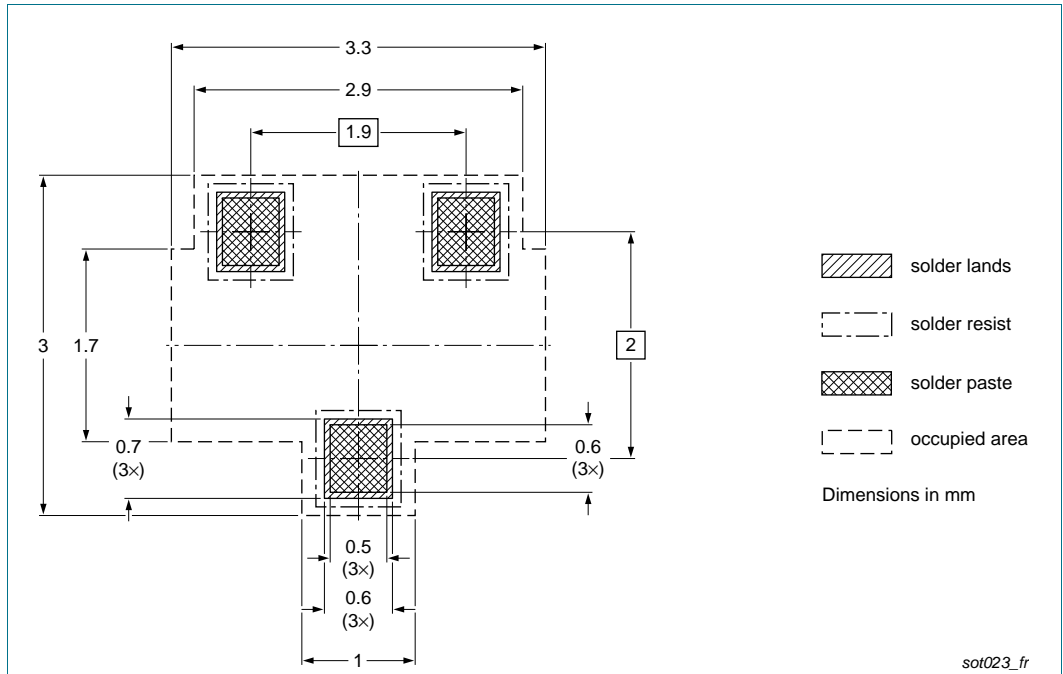


Fig 17. Reflow soldering footprint BAS16 (SOT23/TO-236AB)

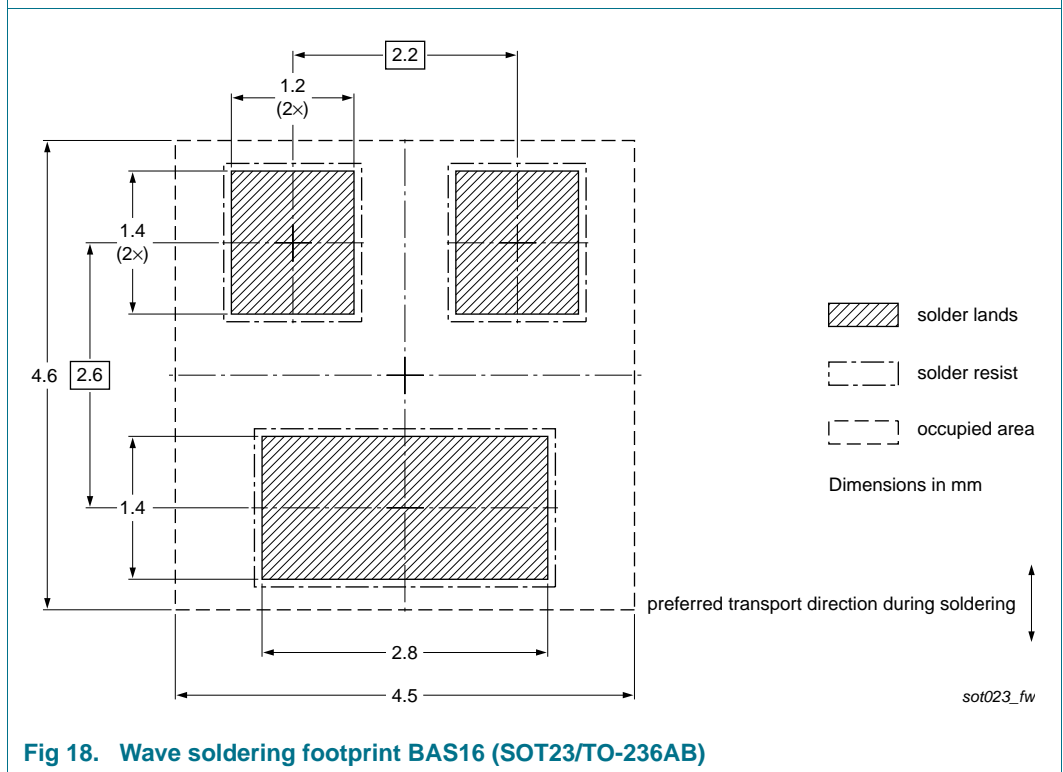


Fig 18. Wave soldering footprint BAS16 (SOT23/TO-236AB)



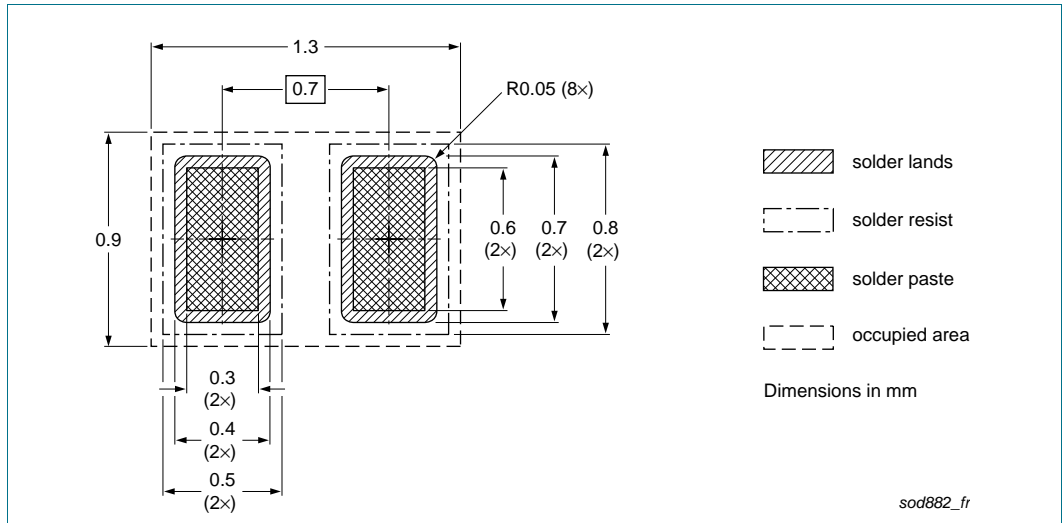


Fig 21. Reflow soldering footprint BAS16L (SOD882/DFN1006-2)

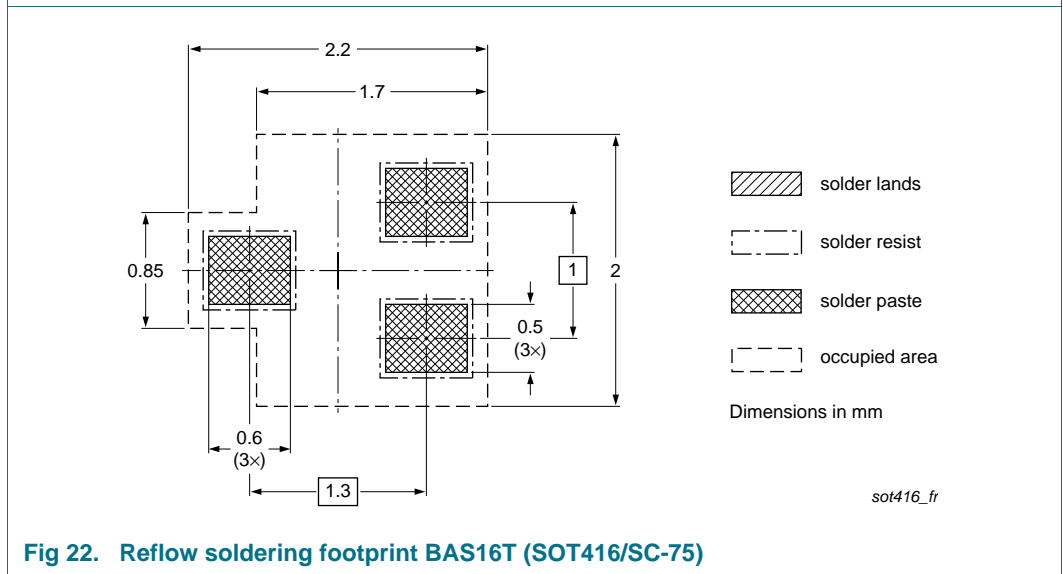


Fig 22. Reflow soldering footprint BAS16T (SOT416/SC-75)

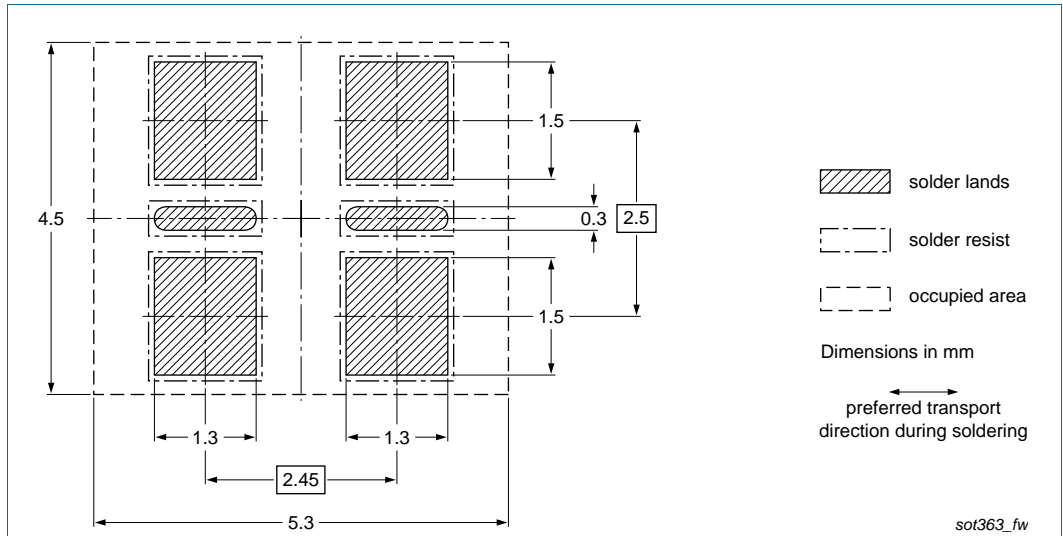


Fig 25. Wave soldering footprint BAS16VY (SOT363/SC-88)

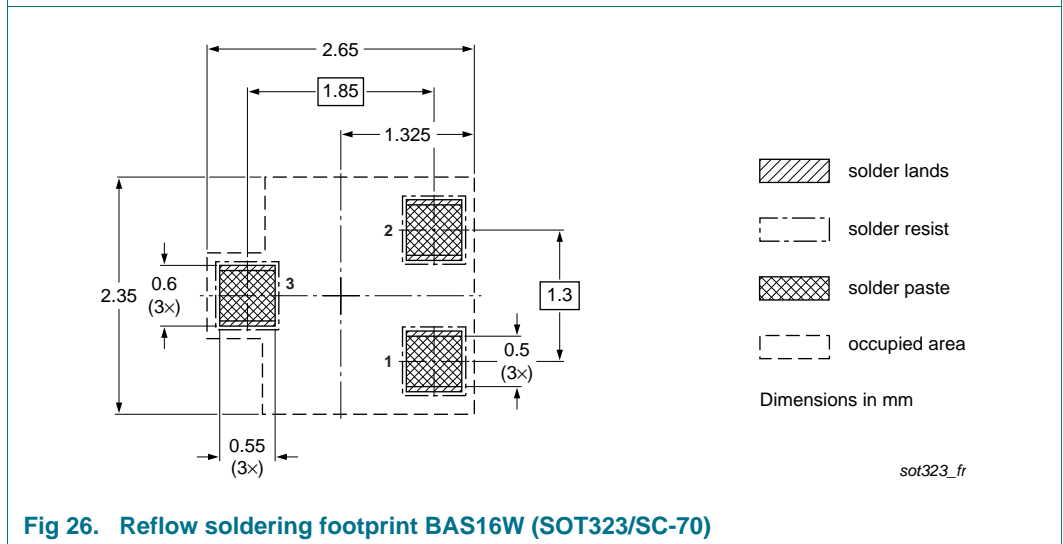


Fig 26. Reflow soldering footprint BAS16W (SOT323/SC-70)

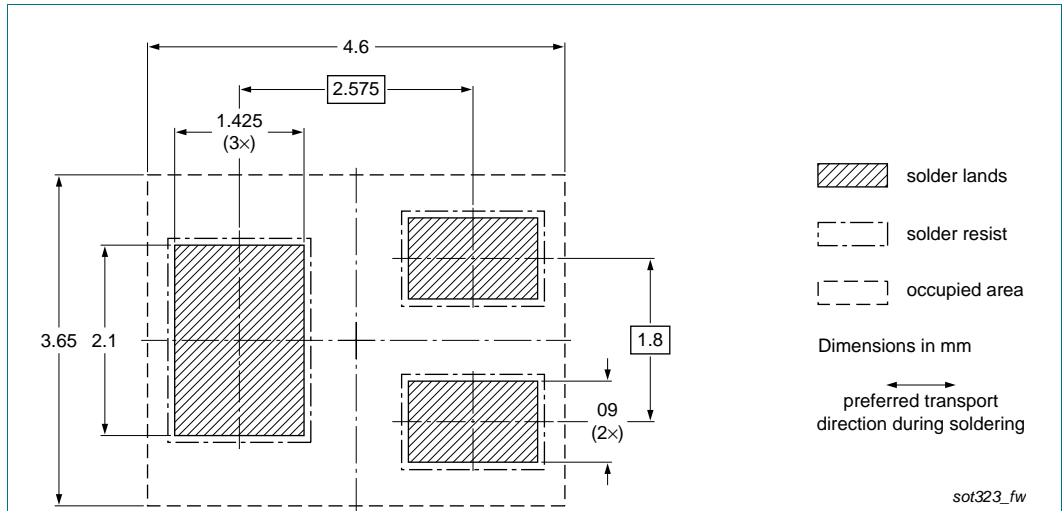


Fig 27. Wave soldering footprint BAS16W (SOT323/SC-70)

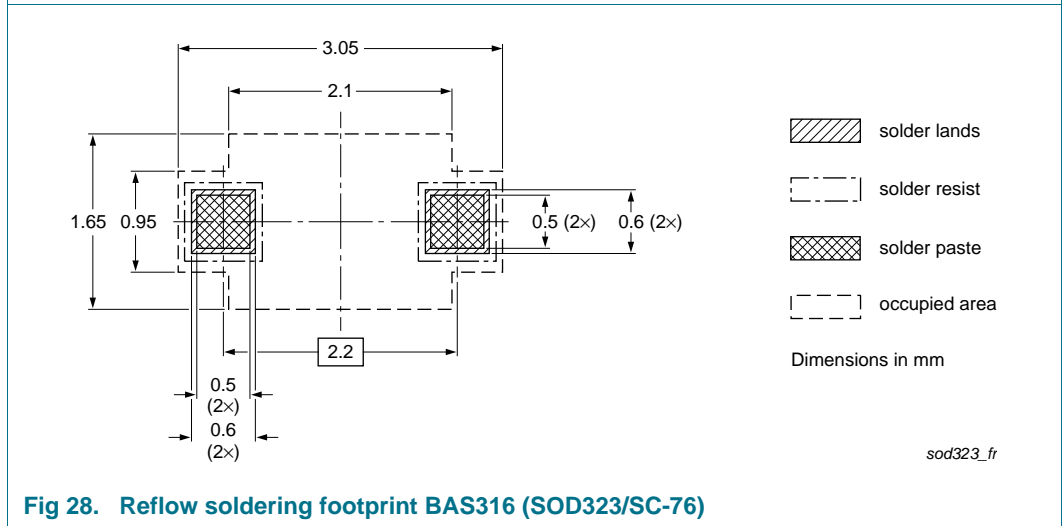


Fig 28. Reflow soldering footprint BAS316 (SOD323/SC-76)



Fig 29. Wave soldering footprint BAS316 (SOD323/SC-76)

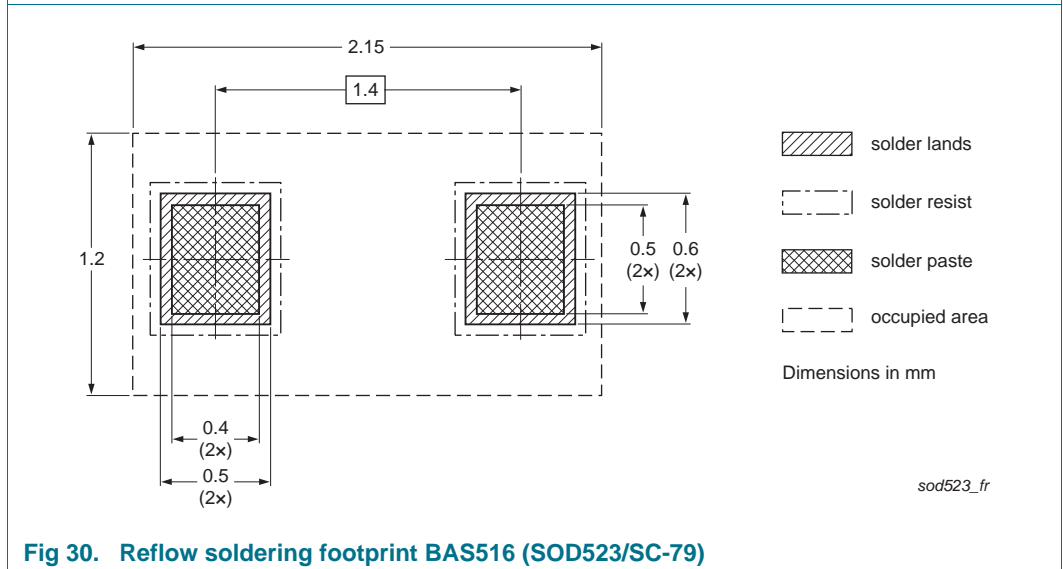


Fig 30. Reflow soldering footprint BAS516 (SOD523/SC-79)

11. Revision history

Table 9. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-------------------|--|-----------------------|---------------|--|
| BAS16_SER_6 | 20140924 | Product data sheet | - | BAS16_SER_5 |
| Modifications: | <ul style="list-style-type: none"> • Section 1.2 “Features and benefits”: updated • Section 4 “Marking”: updated • Table 6 “Limiting values”: updated • Section 8 “Test information”: updated • Section 12 “Legal information”: updated | | | |
| BAS16_SER_5 | 20080825 | Product data sheet | - | BAS16_4 BAS16H_1 BAS16J_1 BAS16L_1 BAS16T_1 BAS16VV_BAS16VY_3 BAS16W_4 BAS316_4 BAS516_1 |
| BAS16_4 | 20011010 | Product specification | - | BAS16_3 |
| BAS16H_1 | 20050415 | Product data sheet | - | - |
| BAS16J_1 | 20070308 | Product data sheet | - | - |
| BAS16L_1 | 20030623 | Product specification | - | - |
| BAS16T_1 | 19980120 | Product specification | - | - |
| BAS16VV_BAS16VY_3 | 20070420 | Product data sheet | - | BAS16VV_BAS16VY_2 |
| BAS16W_4 | 19990506 | Product specification | - | BAS16W_3 |
| BAS316_4 | 20040204 | Product specification | - | BAS316_3 |
| BAS516_1 | 19980831 | Product specification | - | - |

12. Legal information

12.1 Data sheet status

| Document status ^{[1][2]} | Product status ^[3] | Definition |
|-----------------------------------|-------------------------------|---|
| Objective [short] data sheet | Development | This document contains data from the objective specification for product development. |
| Preliminary [short] data sheet | Qualification | This document contains data from the preliminary specification. |
| Product [short] data sheet | Production | This document contains the product specification. |

[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>.

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Translations — A non-English (translated) version of a document is for reference only. The English version shall prevail in case of any discrepancy between the translated and English versions.

12.4 Trademarks

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

13. Contact information

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

For sales office addresses, please send an email to: salesaddresses@nexperia.com

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

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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;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



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