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Kind regards,

Team Nexperia

BAS70 series; 1PS7xSB70 series

General-purpose Schottky diodes

Rev. 09 — 13 January 2010

Product data sheet

1. Product profile

1.1 General description

General-purpose Schottky diodes in small Surface-Mounted Device (SMD) plastic packages.

Table 1. Product overview

| Type number | Package | | Configuration |
|-------------|---------|-------|---------------------|
| | NXP | JEITA | |
| 1PS76SB70 | SOD323 | SC-76 | single diode |
| 1PS79SB70 | SOD523 | SC-79 | single diode |
| BAS70 | SOT23 | - | single diode |
| BAS70H | SOD123F | - | single diode |
| BAS70L | SOD882 | - | single diode |
| BAS70W | SOT323 | SC-70 | single diode |
| BAS70-04 | SOT23 | - | dual series |
| BAS70-04W | SOT323 | SC-70 | dual series |
| BAS70-05 | SOT23 | - | dual common cathode |
| BAS70-05W | SOT323 | SC-70 | dual common cathode |
| BAS70-06 | SOT23 | - | dual common anode |
| BAS70-06W | SOT323 | SC-70 | dual common anode |
| BAS70-07 | SOT143B | - | dual isolated |
| BAS70-07S | SOT363 | SC-88 | dual isolated |
| BAS70-07V | SOT666 | - | dual isolated |
| BAS70VV | SOT666 | - | triple isolated |
| BAS70XY | SOT363 | SC-88 | quadruple; 2 series |

1.2 Features

- High switching speed
- High breakdown voltage
- Low leakage current
- Low capacitance

1.3 Applications

- Ultra high-speed switching
- Voltage clamping

1.4 Quick reference data

Table 2. Quick reference data

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------|-----------------|----------------------|-----|-----|-----|------|
| Per diode | | | | | | |
| I_F | forward current | | - | - | 70 | mA |
| V_F | forward voltage | $I_F = 1 \text{ mA}$ | [1] | - | 410 | mV |
| V_R | reverse voltage | | - | - | 70 | V |

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

2. Pinning information

Table 3. Pinning





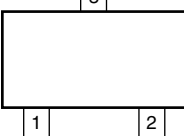
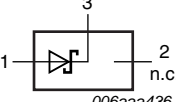
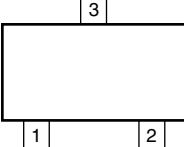
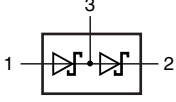
| Pin | Description | Simplified outline | Symbol |
|-------------------------------------|---------------------------------------|---|--|
| BAS70H; 1PS76SB70; 1PS79SB70 | | | |
| 1 | cathode |  <p>001aab540</p> |  <p>1 2</p> <p>sym001</p> |
| 2 | anode | | |
| BAS70L | | | |
| 1 | cathode |  <p>Transparent top view</p> |  <p>1 2</p> <p>sym001</p> |
| 2 | anode | | |
| BAS70; BAS70W | | | |
| 1 | anode |  <p>006aaa144</p> |  <p>1 2 n.c. 3</p> <p>006aaa436</p> |
| 2 | not connected | | |
| 3 | cathode | | |
| BAS70-04; BAS70-04W | | | |
| 1 | anode (diode 1) |  <p>006aaa144</p> |  <p>1 2 3</p> <p>006aaa437</p> |
| 2 | cathode (diode 2) | | |
| 3 | cathode (diode 1), anode (diode 2) | | |

Table 3. Pinning ...continued

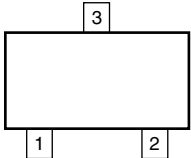
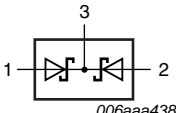
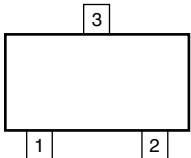
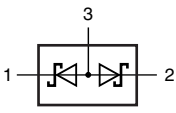
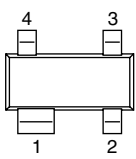
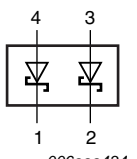
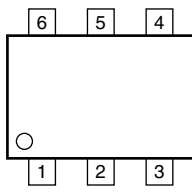
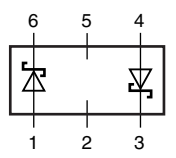
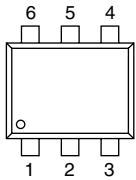
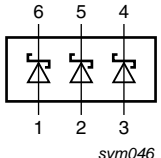
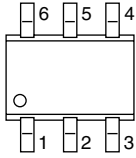
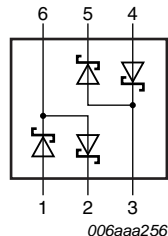
| Pin | Description | Simplified outline | Symbol |
|-----------------------------|---|---|--|
| BAS70-05; BAS70-05W | | | |
| 1 | anode (diode 1) |  <p>006aaa144</p> |  <p>006aaa438</p> |
| 2 | anode (diode 2) | | |
| 3 | cathode (diode 1), cathode (diode 2) | | |
| BAS70-06; BAS70-06W | | | |
| 1 | cathode (diode 1) |  <p>006aaa144</p> |  <p>006aaa439</p> |
| 2 | cathode (diode 2) | | |
| 3 | anode (diode 1), anode (diode 2) | | |
| BAS70-07 | | | |
| 1 | cathode (diode 1) |  |  <p>006aaa434</p> |
| 2 | cathode (diode 2) | | |
| 3 | anode (diode 2) | | |
| 4 | anode (diode 1) | | |
| BAS70-07S; BAS70-07V | | | |
| 1 | anode (diode 1) |  <p>001aab555</p> |  <p>006aaa440</p> |
| 2 | not connected | | |
| 3 | cathode (diode 2) | | |
| 4 | anode (diode 2) | | |
| 5 | not connected | | |
| 6 | cathode (diode 1) | | |
| BAS70VV | | | |
| 1 | anode (diode 1) |  |  <p>sym046</p> |
| 2 | anode (diode 2) | | |
| 3 | anode (diode 3) | | |
| 4 | cathode (diode 3) | | |
| 5 | cathode (diode 2) | | |
| 6 | cathode (diode 1) | | |

Table 3. Pinning ...continued

| Pin | Description | Simplified outline | Symbol |
|----------------|---------------------------------------|---|---|
| BAS70XY | | | |
| 1 | anode (diode 1) |  |  |
| 2 | cathode (diode 2) | | |
| 3 | anode (diode 3), cathode (diode 4) | | |
| 4 | anode (diode 4) | | |
| 5 | cathode (diode 3) | | |
| 6 | cathode (diode 1), anode (diode 2) | | |

[1] The marking bar indicates the cathode.

3. Ordering information

Table 4. Ordering information

| Type number | Package | | Version |
|-------------|---------|---|---------|
| | Name | Description | |
| 1PS76SB70 | SC-76 | plastic surface-mounted package; 2 leads | SOD323 |
| 1PS79SB70 | SC-79 | plastic surface-mounted package; 2 leads | SOD523 |
| BAS70 | - | plastic surface-mounted package; 3 leads | SOT23 |
| BAS70H | - | plastic surface-mounted package; 2 leads | SOD123F |
| BAS70L | - | leadless ultra small plastic package; 2 terminals; body 1.0 × 0.6 × 0.5 mm | SOD882 |
| BAS70W | SC-70 | plastic surface-mounted package; 3 leads | SOT323 |
| BAS70-04 | - | plastic surface-mounted package; 3 leads | SOT23 |
| BAS70-04W | SC-70 | plastic surface-mounted package; 3 leads | SOT323 |
| BAS70-05 | - | plastic surface-mounted package; 3 leads | SOT23 |
| BAS70-05W | SC-70 | plastic surface-mounted package; 3 leads | SOT323 |
| BAS70-06 | - | plastic surface-mounted package; 3 leads | SOT23 |
| BAS70-06W | SC-70 | plastic surface-mounted package; 3 leads | SOT323 |
| BAS70-07 | - | plastic surface-mounted package; 4 leads | SOT143B |
| BAS70-07S | SC-88 | plastic surface-mounted package; 6 leads | SOT363 |
| BAS70-07V | - | plastic surface-mounted package; 6 leads | SOT666 |
| BAS70VV | - | plastic surface-mounted package; 6 leads | SOT666 |
| BAS70XY | SC-88 | plastic surface-mounted package; 6 leads | SOT363 |

4. Marking

Table 5. Marking codes

| Type number | Marking code ^[1] | Type number | Marking code ^[1] |
|-------------|-----------------------------|-------------|-----------------------------|
| 1PS76SB70 | S2 | BAS70-05W | 75* |
| 1PS79SB70 | G | BAS70-06 | 76* |
| BAS70 | 73* | BAS70-06W | 76* |
| BAS70H | AH | BAS70-07 | 77* |
| BAS70L | S8 | BAS70-07S | 77* |
| BAS70W | 73* | BAS70-07V | 77 |
| BAS70-04 | 74* | BAS70VV | N1 |
| BAS70-04W | 74* | BAS70XY | 70* |
| BAS70-05 | 75* | - | - |

[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 |
|------------------|-------------------------------------|---|-------|------|------|
| Per diode | | | | | |
| V_R | reverse voltage | | - | 70 | V |
| I_F | forward current | | - | 70 | mA |
| I_{FRM} | repetitive peak forward current | $t_p \leq 1 \text{ s}; \delta \leq 0.5$ | - | 70 | mA |
| I_{FSM} | non-repetitive peak forward current | $t_p \leq 10 \text{ ms}$ | [1] - | 100 | mA |
| T_j | junction temperature | | - | 150 | °C |
| T_{amb} | ambient temperature | | -65 | +150 | °C |
| T_{stg} | storage temperature | | -65 | +150 | °C |

[1] $T_j = 25 \text{ °C}$ prior to surge.

6. Thermal characteristics

Table 7. Thermal characteristics

| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|-------------------|--|-------------|-----|-----|-----|------|
| Per device | | | | | | |
| $R_{th(j-a)}$ | thermal resistance from junction to ambient | in free air | [1] | | | |
| | SOT23 | | - | - | 500 | K/W |
| | SOT143B | | - | - | 500 | K/W |
| | SOT363 (BAS70-07S) | | - | - | 416 | K/W |
| | SOT666 (BAS70VV) | | [2] | - | 700 | K/W |
| | SOT666 (BAS70-07V) | | [2] | - | 416 | K/W |
| | SOD123F | | [2] | - | 330 | K/W |
| | SOD323 | | - | - | 450 | K/W |
| | SOD523 | | [2] | - | 450 | K/W |
| | SOD882 | | [2] | - | 500 | K/W |
| SOT323 | | - | - | 625 | K/W | |
| $R_{th(j-sp)}$ | thermal resistance from junction to solder point | | | | | |
| | SOT363 (BAS70XY) | | [3] | - | 260 | K/W |

[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] Soldering point at pins 2, 3, 5 and 6.

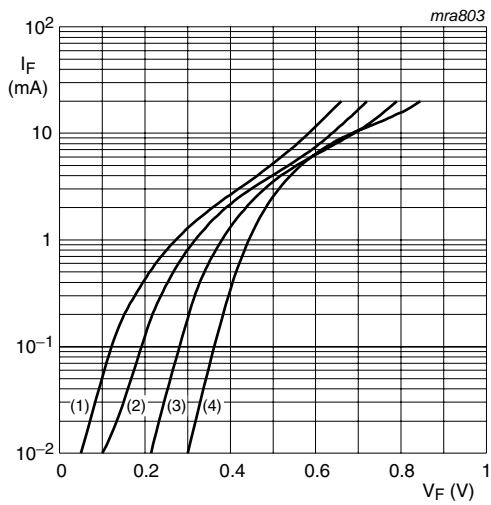
7. Characteristics

Table 8. Characteristics

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

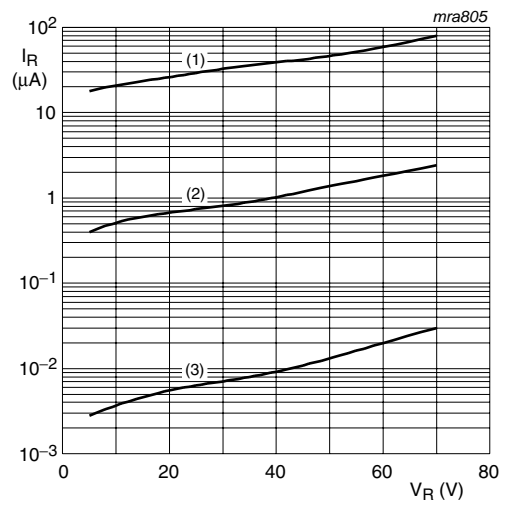
| Symbol | Parameter | Conditions | Min | Typ | Max | Unit |
|------------------|-------------------|--------------------------------------|-----|-----|-----|---------------|
| Per diode | | | | | | |
| V_F | forward voltage | | [1] | | | |
| | | $I_F = 1\text{ mA}$ | - | - | 410 | mV |
| | | $I_F = 10\text{ mA}$ | - | - | 750 | mV |
| | | $I_F = 15\text{ mA}$ | - | - | 1 | V |
| I_R | reverse current | $V_R = 50\text{ V}$ | - | - | 100 | nA |
| | | $V_R = 70\text{ V}$ | - | - | 10 | μA |
| C_d | diode capacitance | $V_R = 0\text{ V}; f = 1\text{ MHz}$ | - | - | 2 | pF |

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



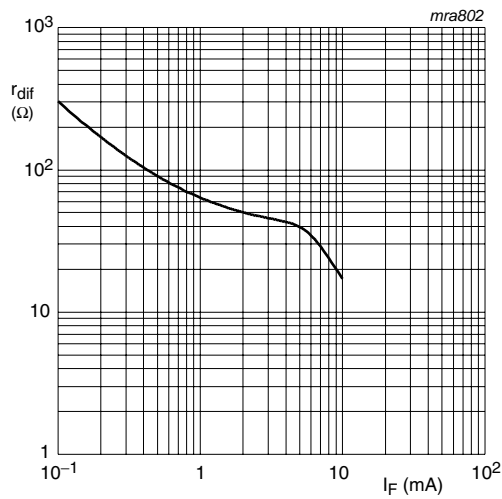
- (1) $T_{amb} = 125^\circ\text{C}$
- (2) $T_{amb} = 85^\circ\text{C}$
- (3) $T_{amb} = 25^\circ\text{C}$
- (4) $T_{amb} = -40^\circ\text{C}$

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



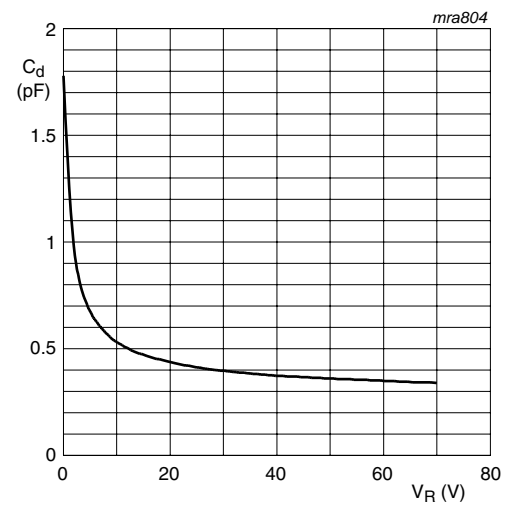
- (1) $T_{amb} = 125^\circ\text{C}$
- (2) $T_{amb} = 85^\circ\text{C}$
- (3) $T_{amb} = 25^\circ\text{C}$

Fig 2. Reverse current as a function of reverse voltage; typical values



$f = 10\text{ kHz}$

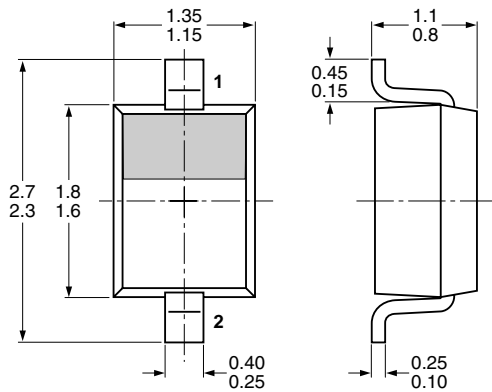
Fig 3. Differential forward resistance as a function of forward current; typical values



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

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

8. Package outline



Dimensions in mm

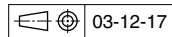
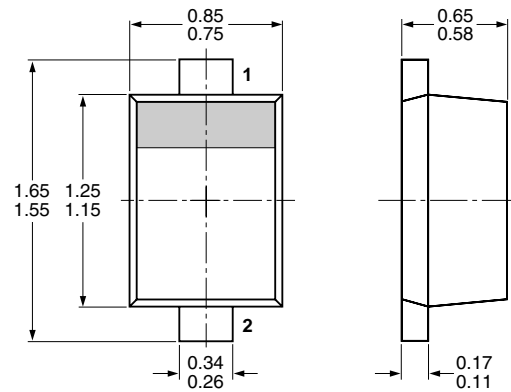


Fig 5. Package outline SOD323 (SC-76)



Dimensions in mm

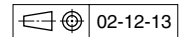
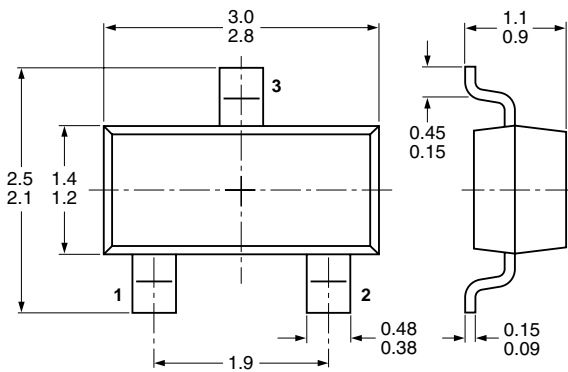


Fig 6. Package outline SOD523 (SC-79)



Dimensions in mm

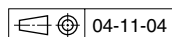
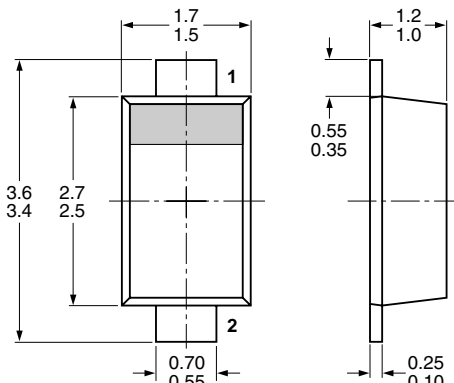


Fig 7. Package outline SOT23 (TO-236AB)



Dimensions in mm

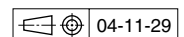
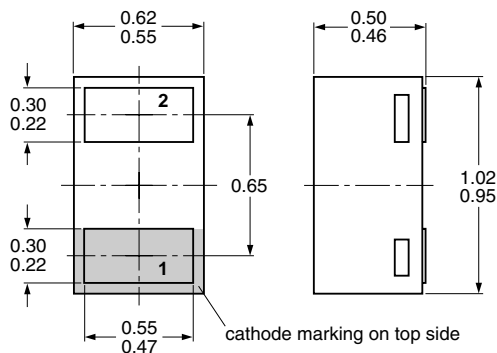


Fig 8. Package outline SOD123F



Dimensions in mm

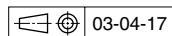
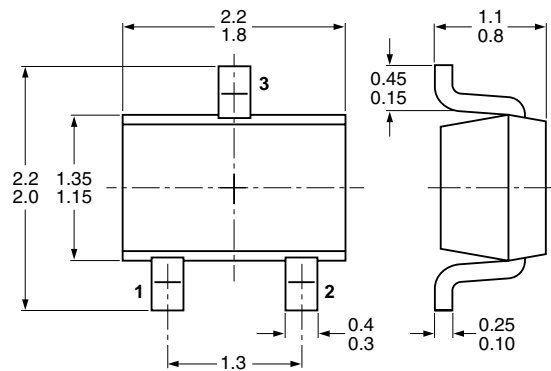


Fig 9. Package outline SOD882



Dimensions in mm

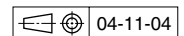
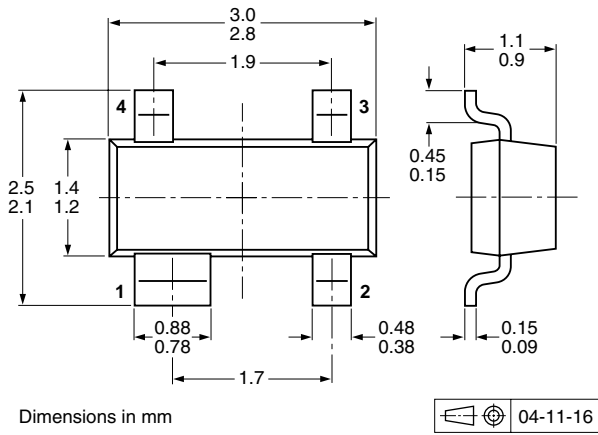
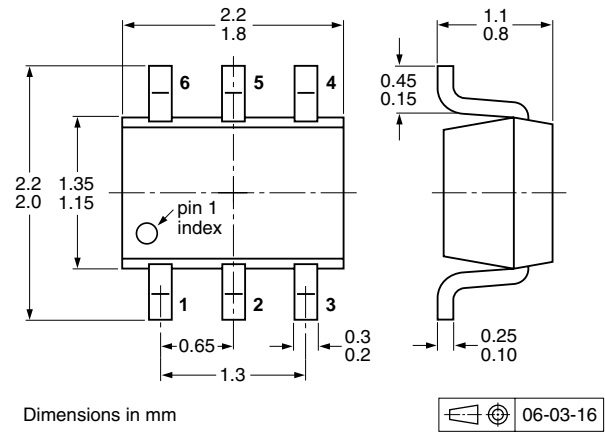
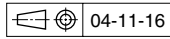


Fig 10. Package outline SOT323 (SC-70)



Dimensions in mm



Dimensions in mm

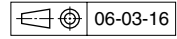
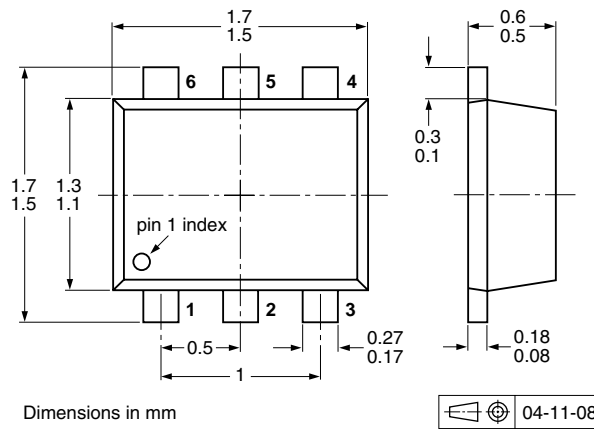


Fig 11. Package outline SOT143B

Fig 12. Package outline SOT363 (SC-88)



Dimensions in mm

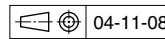


Fig 13. Package outline SOT666

9. Packing information

Table 9. Packing methods

The indicated -xxx are the last three digits of the 12NC ordering code.^[1]

| Type number | Package | Description | Packing quantity | | | |
|-------------|---------|---|------------------|------|------|-------|
| | | | 3000 | 4000 | 8000 | 10000 |
| 1PS76SB70 | SOD323 | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| 1PS79SB70 | SOD523 | 2 mm pitch, 8 mm tape and reel | - | - | -315 | - |
| | | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70 | SOT23 | 4 mm pitch, 8 mm tape and reel | -215 | - | - | -235 |
| BAS70H | SOD123F | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70L | SOD882 | 2 mm pitch, 8 mm tape and reel | - | - | - | -315 |
| BAS70W | SOT323 | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70-04 | SOT23 | 4 mm pitch, 8 mm tape and reel | -215 | - | - | -235 |
| BAS70-04W | SOT323 | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70-05 | SOT23 | 4 mm pitch, 8 mm tape and reel | -215 | - | - | -235 |
| BAS70-05W | SOT323 | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70-06 | SOT23 | 4 mm pitch, 8 mm tape and reel | -215 | - | - | -235 |
| BAS70-06W | SOT323 | 4 mm pitch, 8 mm tape and reel | -115 | - | - | -135 |
| BAS70-07 | SOT143B | 4 mm pitch, 8 mm tape and reel | -215 | - | - | -235 |
| BAS70-07S | SOT363 | 4 mm pitch, 8 mm tape and reel; T1 ^[2] | -115 | - | - | -135 |
| | | 4 mm pitch, 8 mm tape and reel; T2 ^[3] | -125 | - | - | -165 |
| BAS70-07V | SOT666 | 2 mm pitch, 8 mm tape and reel | - | - | -315 | - |
| | | 4 mm pitch, 8 mm tape and reel | - | -115 | - | - |
| BAS70VV | SOT666 | 2 mm pitch, 8 mm tape and reel | - | - | -315 | - |
| | | 4 mm pitch, 8 mm tape and reel | - | -115 | - | - |
| BAS70XY | SOT363 | 4 mm pitch, 8 mm tape and reel; T1 ^[2] | -115 | - | - | -135 |
| | | 4 mm pitch, 8 mm tape and reel; T2 ^[3] | -125 | - | - | -165 |

[1] For further information and the availability of packing methods, see [Section 13](#).

[2] T1: normal taping

[3] T2: reverse taping

10. Soldering

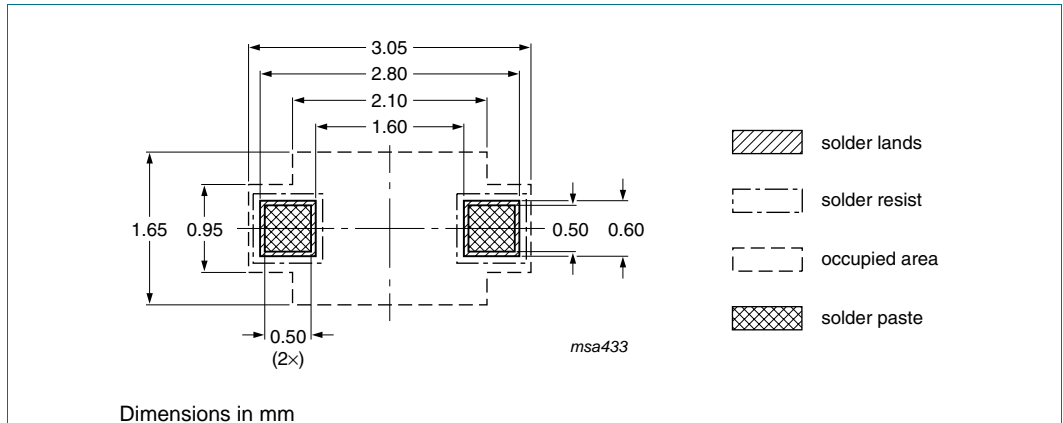


Fig 14. Reflow soldering footprint SOD323 (SC-76)

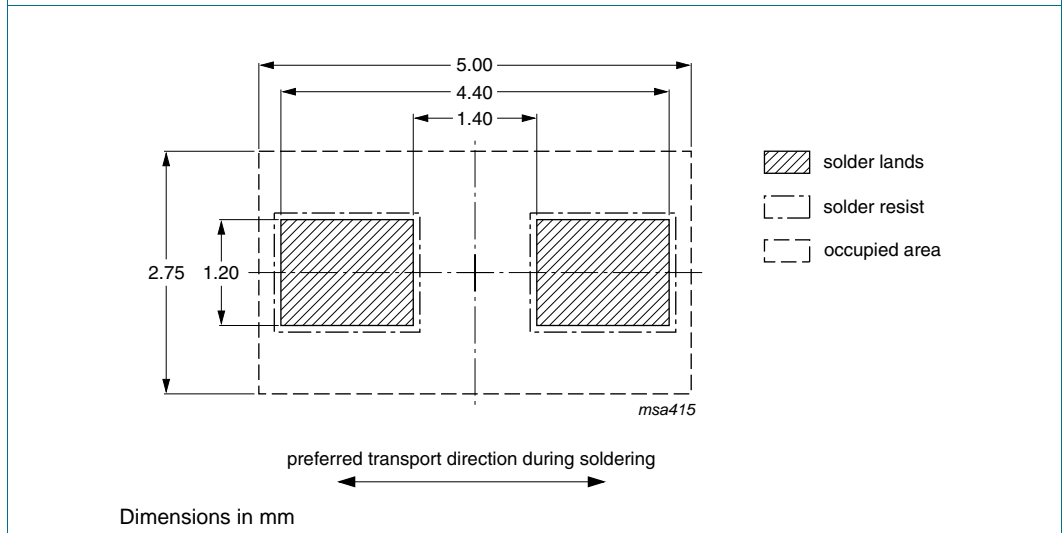


Fig 15. Wave soldering footprint SOD323 (SC-76)

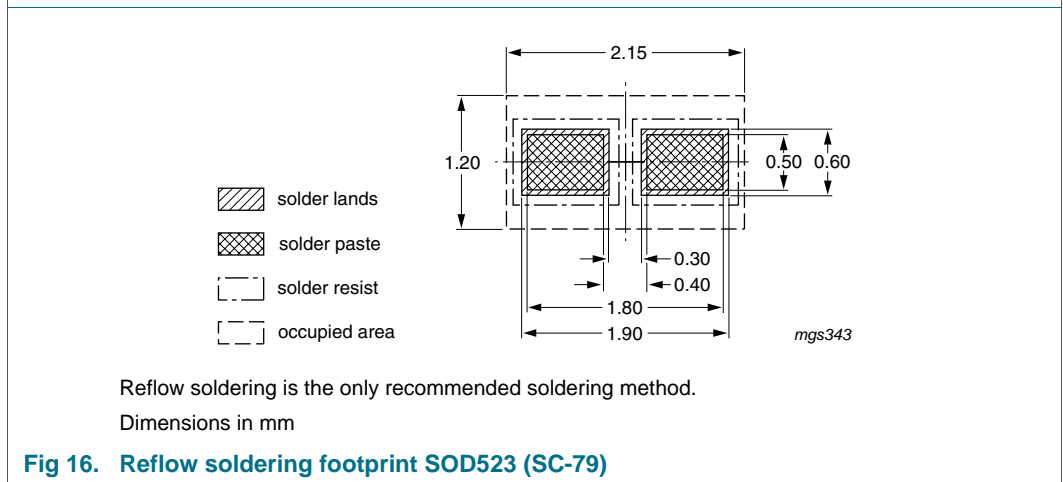
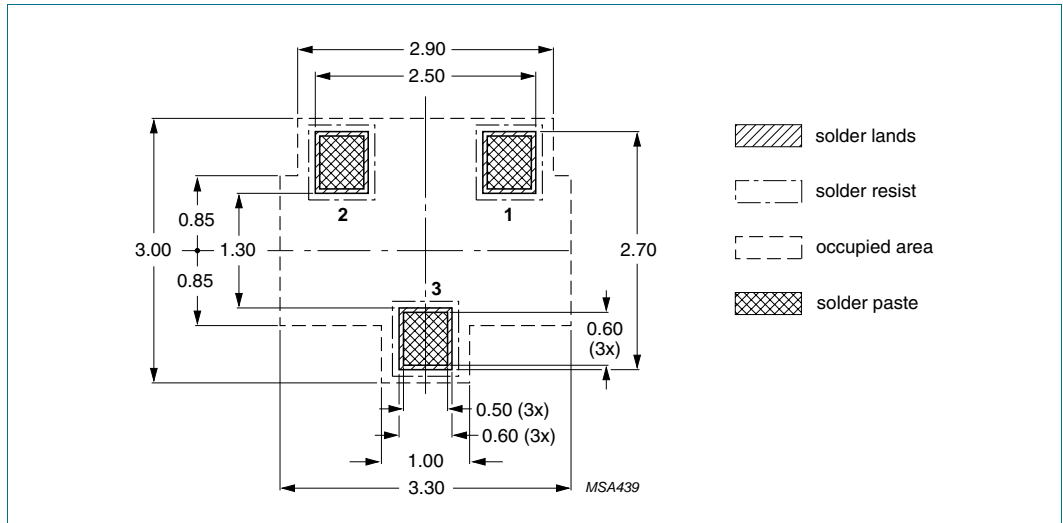
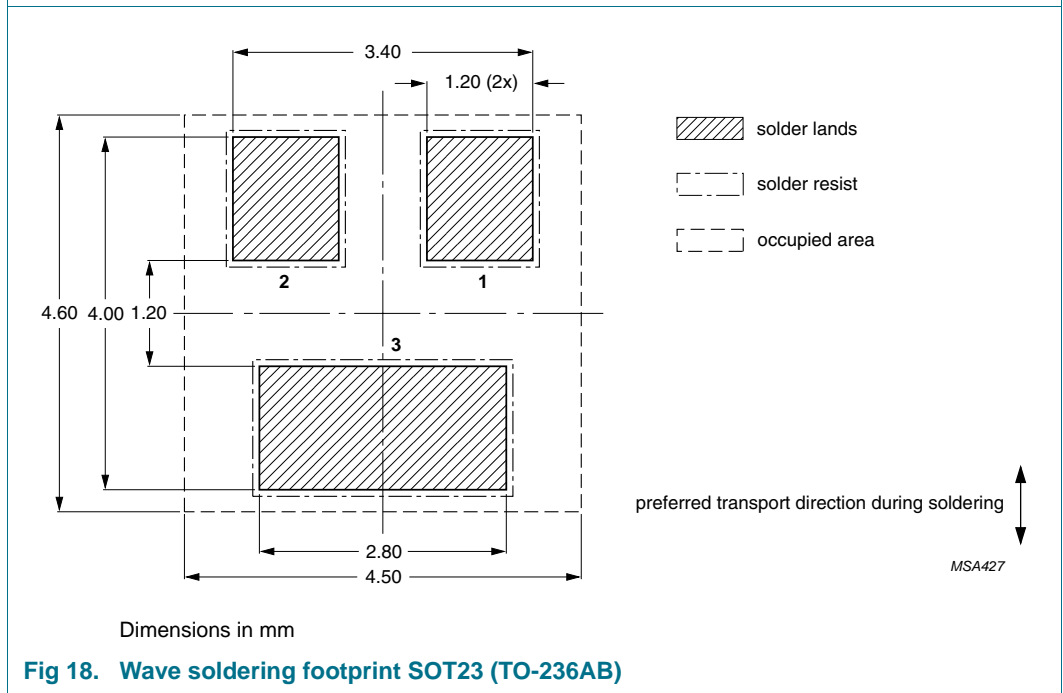


Fig 16. Reflow soldering footprint SOD523 (SC-79)



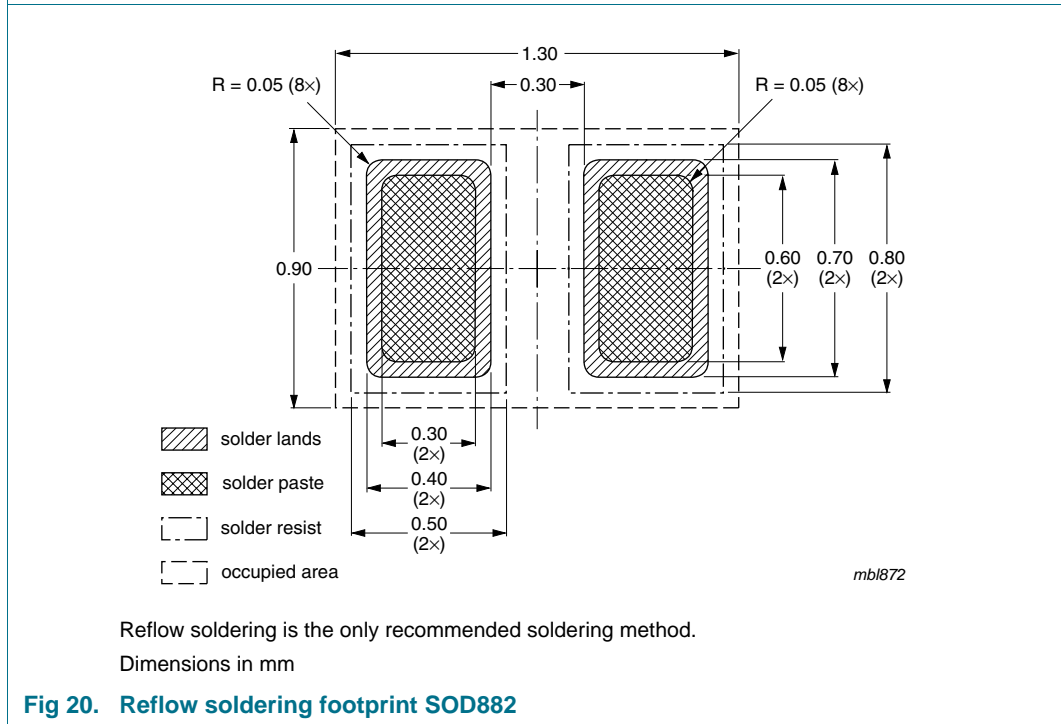
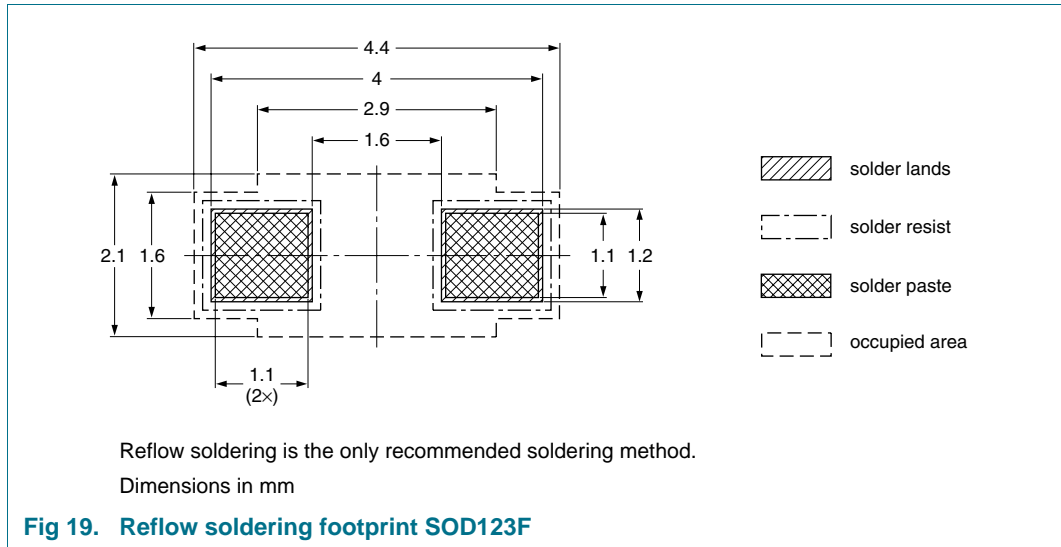
Dimensions in mm

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



Dimensions in mm

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



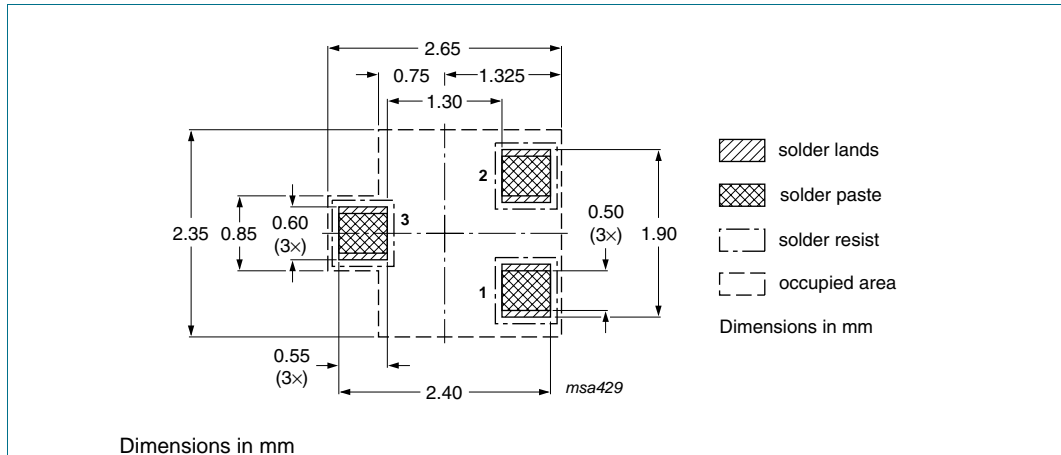


Fig 21. Reflow soldering footprint SOT323 (SC-70)

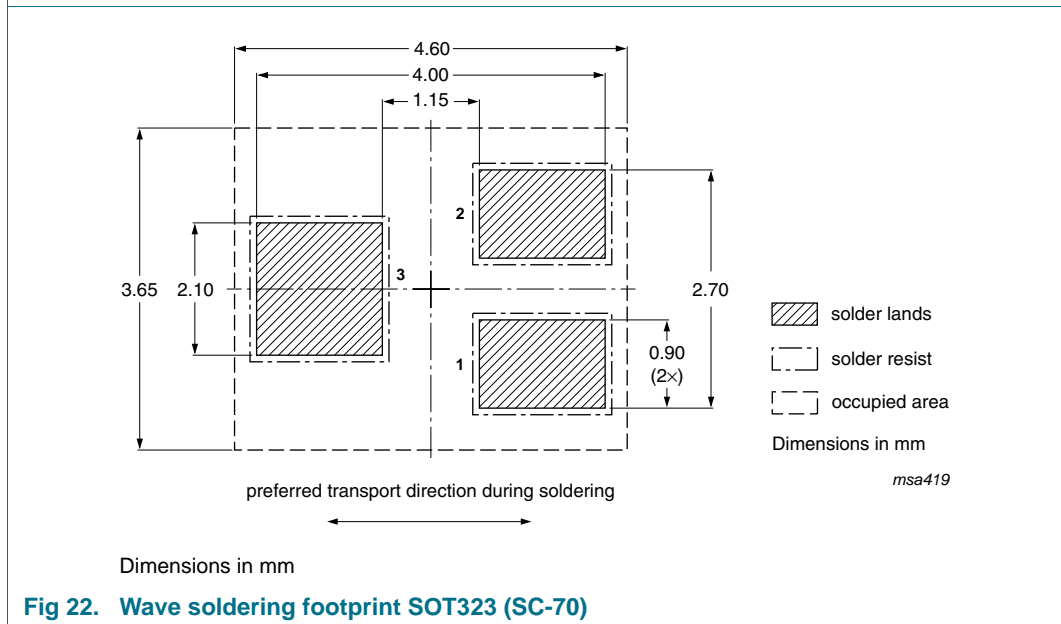
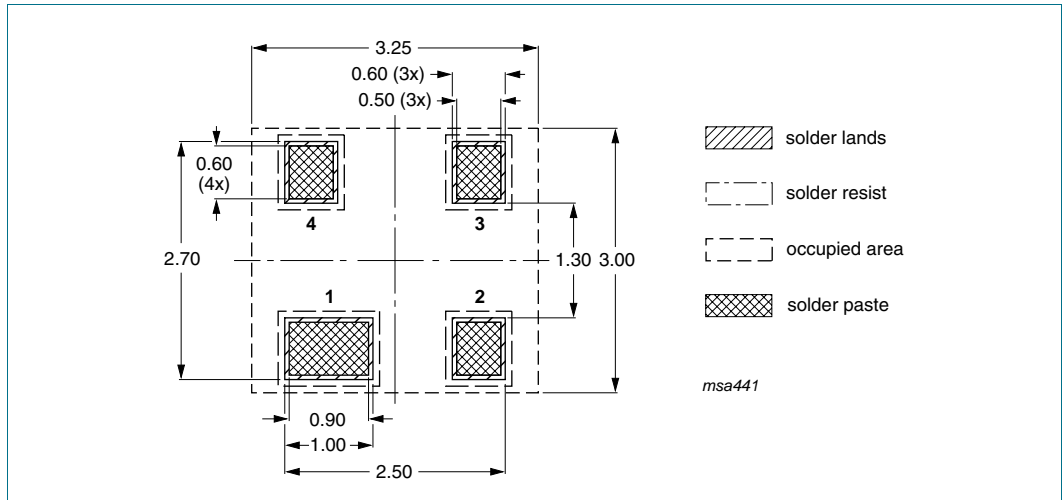
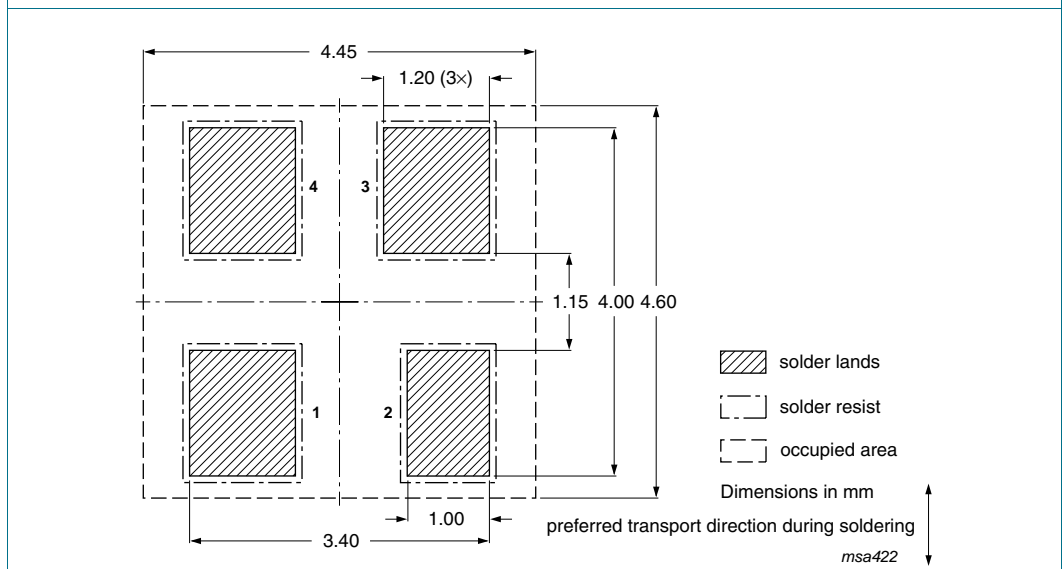


Fig 22. Wave soldering footprint SOT323 (SC-70)



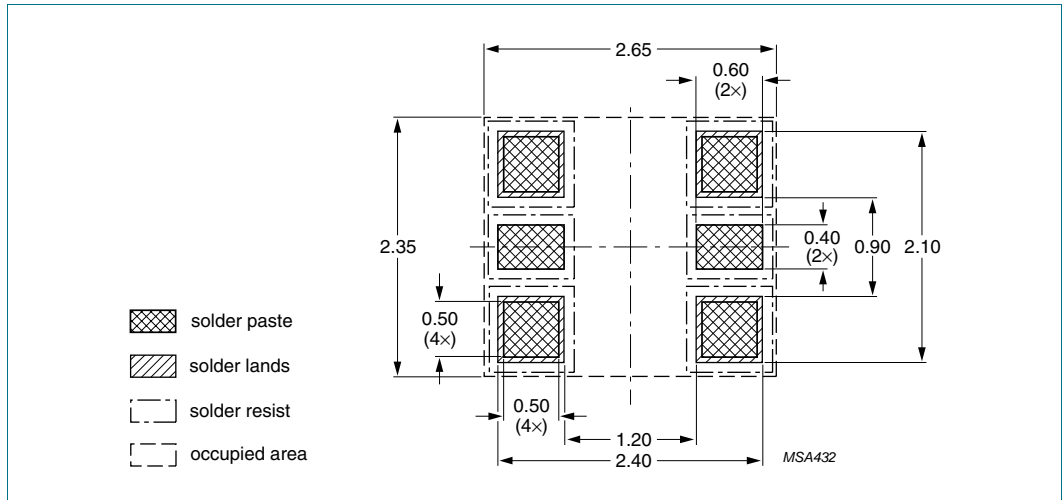
Dimensions in mm

Fig 23. Reflow soldering footprint SOT143B



Dimensions in mm

Fig 24. Wave soldering footprint SOT143B



Dimensions in mm

Fig 25. Reflow soldering footprint SOT363 (SC-88)

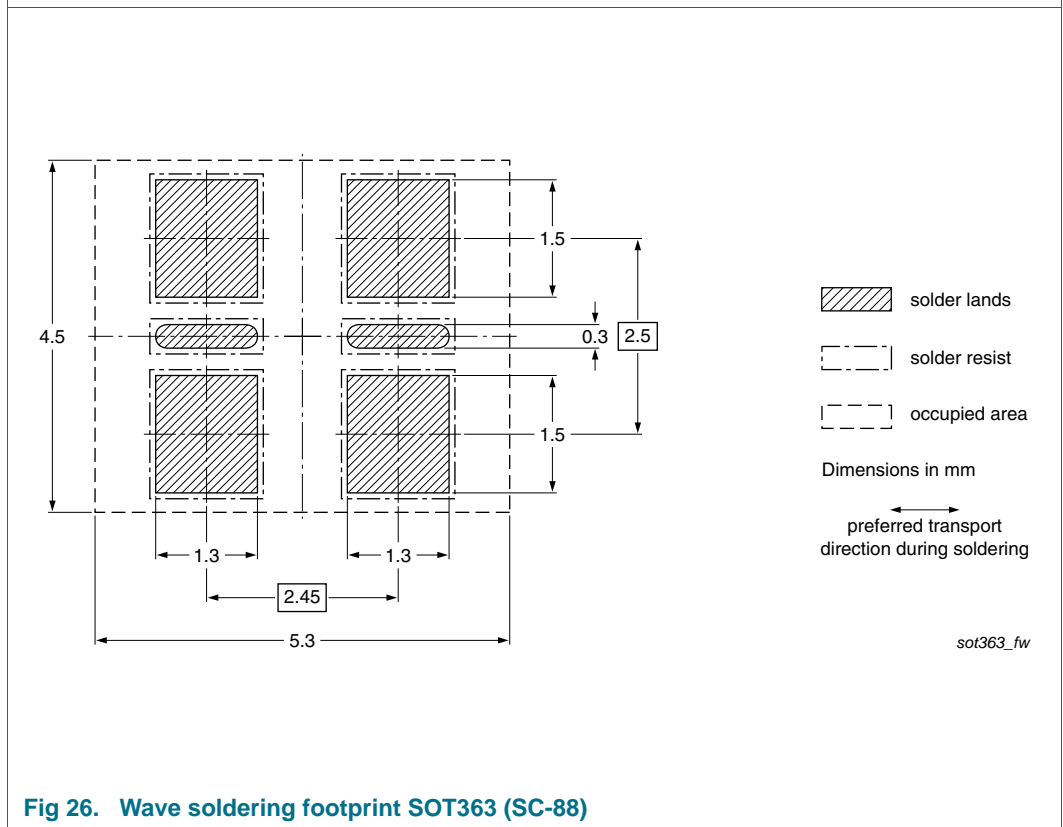
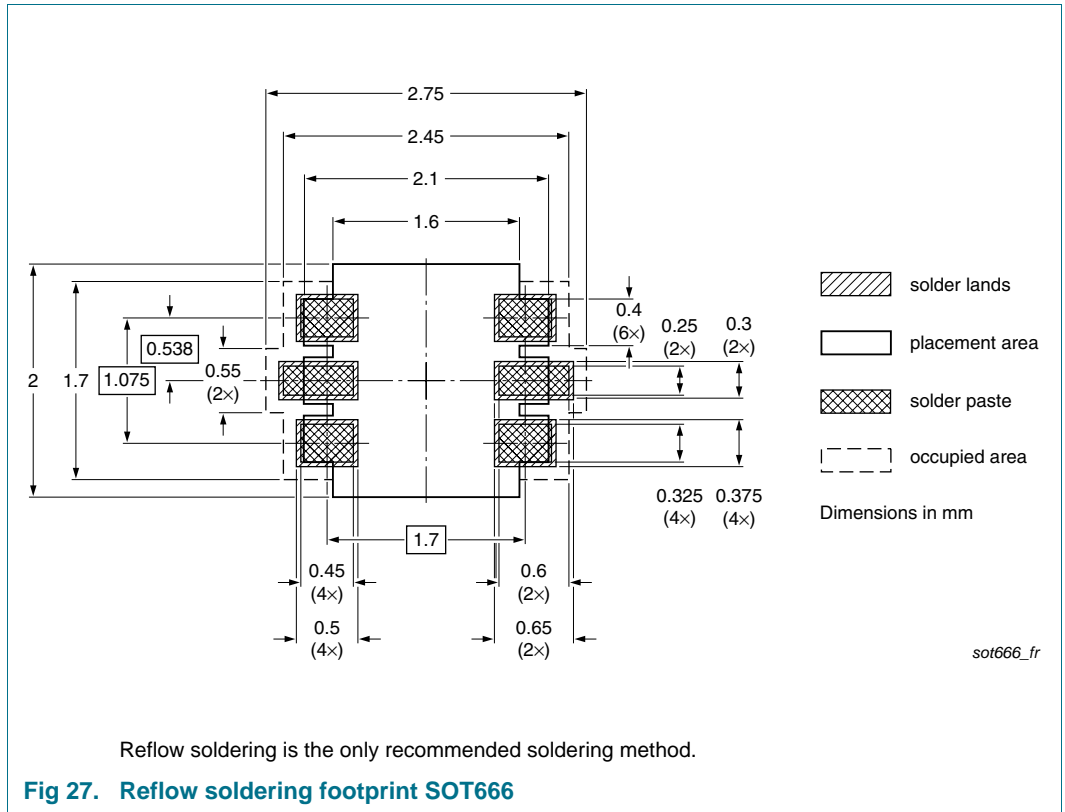


Fig 26. Wave soldering footprint SOT363 (SC-88)



11. Revision history

Table 10. Revision history

| Document ID | Release date | Data sheet status | Change notice | Supersedes |
|-----------------------|---|-----------------------|---------------|--|
| BAS70_1PS7XSB70_SER_9 | 20100113 | Product data sheet | - | BAS70_1PS7XSB70_SER_8 |
| Modifications: | <ul style="list-style-type: none"> 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. | | | |
| BAS70_1PS7XSB70_SER_8 | 20060504 | Product data sheet | - | BAS70_1PS7XSB70_SER_7 |
| BAS70_1PS7XSB70_SER_7 | 20050718 | Product data sheet | - | 1PS76SB70_2 1PS79SB70_1 BAS70H_1 BAS70L_1 BAS70-07V_1 BAS70VV_1 BAS70W_3 BAS70-07S_4 BAS70_SERIES_6 |
| 1PS76SB70_2 | 20040126 | Product specification | - | 1PS76SB70_1 |
| 1PS79SB70_1 | 19980716 | Product specification | - | - |
| BAS70H_1 | 20050425 | Product data sheet | - | - |
| BAS70L_1 | 20030520 | Product specification | - | - |
| BAS70-07V_1 | 20020117 | Product specification | - | - |
| BAS70VV_1 | 20040910 | Product data sheet | - | - |
| BAS70W_3 | 19990326 | Product specification | - | BAS70W_2 |
| BAS70-07S_4 | 20030411 | Product specification | - | BAS70_07S_3 |
| BAS70_SERIES_6 | 20011011 | Product specification | - | BAS70_5 |

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.nxp.com>.

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13. Contact information

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14. Contents

| | | |
|-----------|--------------------------------------|-----------|
| 1 | Product profile | 1 |
| 1.1 | General description | 1 |
| 1.2 | Features | 1 |
| 1.3 | Applications | 1 |
| 1.4 | Quick reference data | 2 |
| 2 | Pinning information | 2 |
| 3 | Ordering information | 4 |
| 4 | Marking | 5 |
| 5 | Limiting values | 5 |
| 6 | Thermal characteristics | 6 |
| 7 | Characteristics | 6 |
| 8 | Package outline | 8 |
| 9 | Packing information | 10 |
| 10 | Soldering | 11 |
| 11 | Revision history | 18 |
| 12 | Legal information | 19 |
| 12.1 | Data sheet status | 19 |
| 12.2 | Definitions | 19 |
| 12.3 | Disclaimers | 19 |
| 12.4 | Trademarks | 19 |
| 13 | Contact information | 19 |
| 14 | Contents | 20 |

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