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Kind regards,

Team Nexperia

# BAS70 series; 1PS7xSB70 series General-purpose Schottky diodes

Rev. 09 — 13 January 2010

**Product data sheet** 

#### **Product profile** 1.

#### 1.1 General description

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

Table 1. **Product overview** 

Type number	Package	Package	
	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

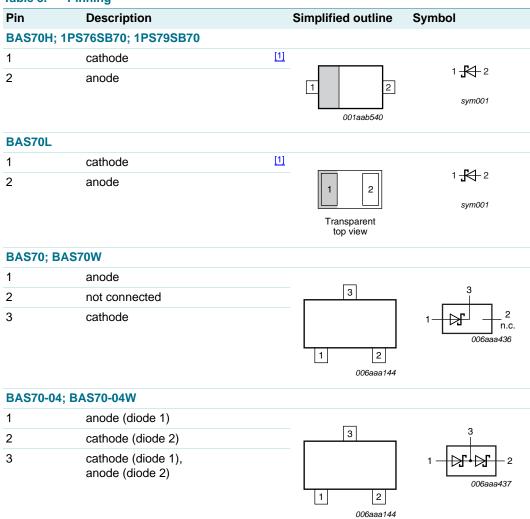
Table 2. Quick reference data

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
Per diode						
I <sub>F</sub>	forward current		-	-	70	mA
$V_{F}$	forward voltage	$I_F = 1 \text{ mA}$	<u>[1]</u> -	-	410	mV
$V_R$	reverse voltage		-	-	70	V

<sup>[1]</sup> Pulse test:  $t_p \le 300~\mu s;~\delta \le 0.02.$ 

# 2. Pinning information

Table 3. Pinning



BAS70\_1PS7XSB70\_SER\_9 © NXP B.V. 2010. All rights reserved.

# BAS70 series; 1PS7xSB70 series

General-purpose Schottky diodes

 Table 3.
 Pinning ...continued

Pin	Description	Simplified outline	Symbol
BAS70-05;	BAS70-05W		
1	anode (diode 1)		
2	anode (diode 2)	3	3
3	cathode (diode 1), cathode (diode 2)	1 2 006aaa144	1 2 006aaa438
BAS70-06;	BAS70-06W		
1	cathode (diode 1)		_
2	cathode (diode 2)	[3]	3
3	anode (diode 1), anode (diode 2)	1 2 006aaa144	1 2 006aaa439
BAS70-07			
1	cathode (diode 1)		4
2	cathode (diode 2)	4 3	4 3
3	anode (diode 2)		🔻 🔻
4	anode (diode 1)	1 2	1 2 006aaa434
BAS70-07S	; BAS70-07V		
1	anode (diode 1)		
2	not connected	6 5 4	6 5 4
3	cathode (diode 2)		
4	anode (diode 2)		
5	not connected		1 2 3 <i>006aaa44</i> 0
6	cathode (diode 1)	001aab555	
BAS70VV			
1	anode (diode 1)		
2	anode (diode 2)	6 5 4	6 5 4
_	ariode (diode 2)		
3	anode (diode 3)		
			* * *
3	anode (diode 3)		1 2 3 sym046

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 Table 3.
 Pinning ...continued

Pin	Description	Simplified outline	Symbol
BAS70XY			
1	anode (diode 1)	D- D- D-	
2	cathode (diode 2)	6   5   4	6 5 4
3	anode (diode 3), cathode (diode 4)	0	
4	anode (diode 4)	1 2 3	
5	cathode (diode 3)		
6	cathode (diode 1), anode (diode 2)		1 2 3 006aaa256

<sup>[1]</sup> The marking bar indicates the cathode.

# 3. Ordering information

Table 4. Ordering information

Type number	Package		
	Name	Description	Version
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 $\times$ 0.6 $\times$ 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*	-	-

<sup>[1] \* = -:</sup> made in Hong Kong

# 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 <sub>F</sub>	forward current		-	70	mA
I <sub>FRM</sub>	repetitive peak forward current	$t_p \leq 1 \text{ s; } \delta \leq 0.5$	-	70	mA
I <sub>FSM</sub>	non-repetitive peak forward current	$t_p \le 10 \text{ ms}$	<u>[1]</u> -	100	mA
Tj	junction temperature		-	150	°C
T <sub>amb</sub>	ambient temperature		-65	+150	°C
$T_{stg}$	storage temperature		-65	+150	°C

<sup>[1]</sup>  $T_j = 25$  °C prior to surge.

<sup>\* =</sup> p: made in Hong Kong

<sup>\* =</sup> t: made in Malaysia

<sup>\* =</sup> W: made in China

#### 6. Thermal characteristics

Table 7 Thermal characteristics

Table 7.	Thermal characteristics						
Symbol	Parameter	Conditions		Min	Тур	Max	Unit
Per device	e						
$R_{th(j-a)}$	thermal resistance from junction to ambient	in free air	<u>[1]</u>				
	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)		<u>[3]</u>	-	-	260	K/W

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

#### 7. Characteristics

Table 8. Characteristics

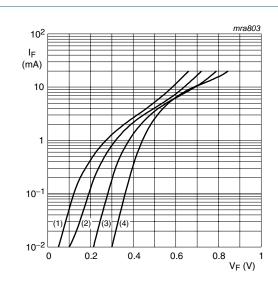
 $T_{amb} = 25$  °C unless otherwise specified.

Parameter	Conditions	Min	Тур	Max	Unit
•					
forward voltage		<u>[1]</u>			
	I <sub>F</sub> = 1 mA	-	-	410	mV
	I <sub>F</sub> = 10 mA	-	-	750	mV
	I <sub>F</sub> = 15 mA	-	-	1	V
reverse current	$V_R = 50 \text{ V}$	-	-	100	nA
	V <sub>R</sub> = 70 V	-	-	10	μΑ
diode capacitance	$V_R = 0 V$ ; $f = 1 MHz$	-	-	2	pF
	forward voltage reverse current	forward voltage $I_{F} = 1 \text{ mA}$ $I_{F} = 10 \text{ mA}$ $I_{F} = 15 \text{ mA}$ $V_{R} = 50 \text{ V}$ $V_{R} = 70 \text{ V}$	forward voltage $\begin{array}{c} I_F = 1 \text{ mA} & - \\ I_F = 10 \text{ mA} & - \\ I_F = 15 \text{ mA} & - \\ \hline I_F = 15 \text{ mA} & - \\ \hline I_{P} = 15 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = 10 \text{ mA} & - \\ \hline I_{P} = $	forward voltage	

<sup>[1]</sup> Pulse test:  $t_p \le 300~\mu s;~\delta \le 0.02.$ 

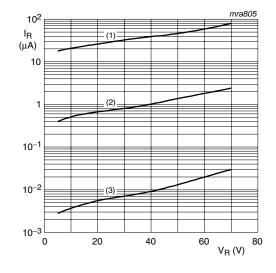
<sup>[2]</sup> Reflow soldering is the only recommended soldering method.

<sup>[3]</sup> Soldering point at pins 2, 3, 5 and 6.



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

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



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

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

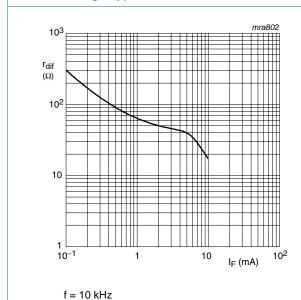
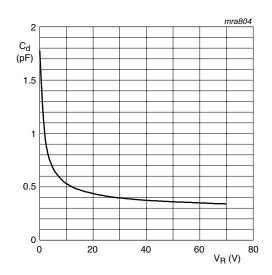


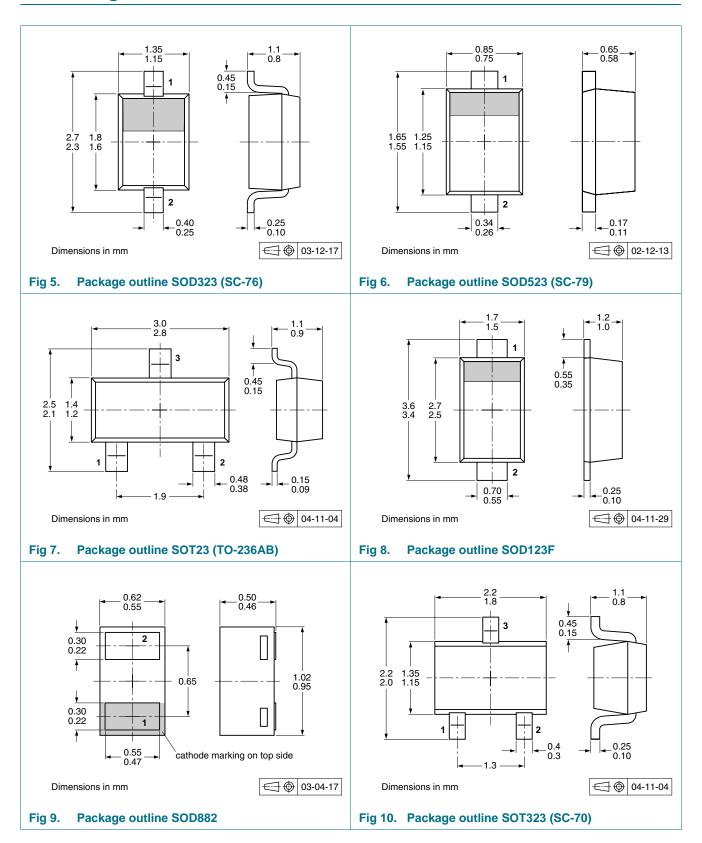
Fig 3. Differential forward resistance as a function of forward current; typical values

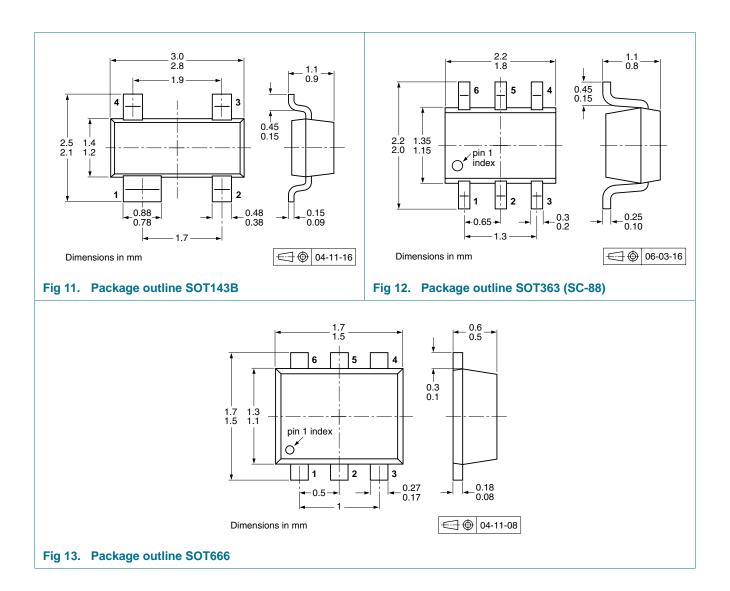


 $T_{amb} = 25 \, ^{\circ}C; f = 1 \, MHz$ 

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

# 8. Package outline





# 9. Packing information

Table 9. Packing methods

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

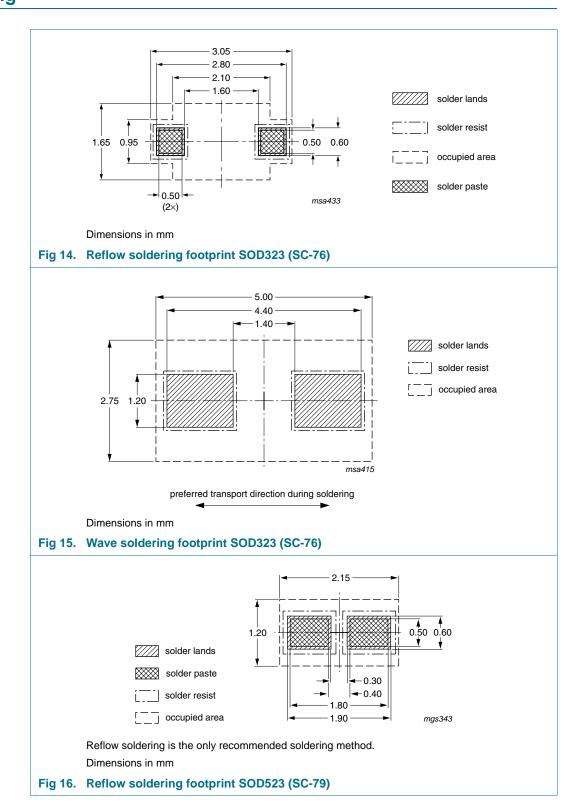
			Packing quantity			
			4000	8000	10000	
SOD323	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOD523	2 mm pitch, 8 mm tape and reel	-	-	-315	-	
	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOT23	4 mm pitch, 8 mm tape and reel	-215	-	-	-235	
SOD123F	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOD882	2 mm pitch, 8 mm tape and reel	-	-	-	-315	
SOT323	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOT23	4 mm pitch, 8 mm tape and reel	-215	-	-	-235	
SOT323	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOT23	4 mm pitch, 8 mm tape and reel	-215	-	-	-235	
SOT323	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOT23	4 mm pitch, 8 mm tape and reel	-215	-	-	-235	
SOT323	4 mm pitch, 8 mm tape and reel	-115	-	-	-135	
SOT143B	4 mm pitch, 8 mm tape and reel	-215	-	-	-235	
SOT363	4 mm pitch, 8 mm tape and reel; T1	<u>2</u> -115	-	-	-135	
	4 mm pitch, 8 mm tape and reel; T2	<u>3</u> -125	-	-	-165	
SOT666	2 mm pitch, 8 mm tape and reel	-	-	-315	-	
	4 mm pitch, 8 mm tape and reel	-	-115	-	-	
SOT666	2 mm pitch, 8 mm tape and reel	-	-	-315	-	
	4 mm pitch, 8 mm tape and reel	-	-115	-	-	
SOT363	4 mm pitch, 8 mm tape and reel; T1	2 -115	-	-	-135	
	4 mm pitch, 8 mm tape and reel; T2	<u>3</u> -125	-	-	-165	
	SOD523 SOD523 SOD123F SOD882 SOT323 SOT23 SOT323 SOT323 SOT323 SOT323 SOT323 SOT323 SOT323 SOT323 SOT323 SOT323 SOT3666	2 mm pitch, 8 mm tape and reel 4 mm pitch, 8 mm tape and reel 3 mm pitch, 8 mm tape and reel; T1 4 mm pitch, 8 mm tape and reel 4 mm pitch, 8 mm tape and reel 5 mm pitch, 8 mm tape and reel 4 mm pitch, 8 mm tape and reel 5 mm pitch, 8 mm tape and reel	2 mm pitch, 8 mm tape and reel - 4 mm pitch, 8 mm tape and reel -115 30T23	2 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -215 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -215 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 3 mm pitch, 8 mm tape and reel -115 - 4 mm pitch, 8 mm tape and reel; T1 [2] -115 - 4 mm pitch, 8 mm tape and reel 5 mm pitch, 8 mm tape and reel 4 mm pitch, 8 mm tape and reel 5 mm pitch, 8 m	2 mm pitch, 8 mm tape and reel	

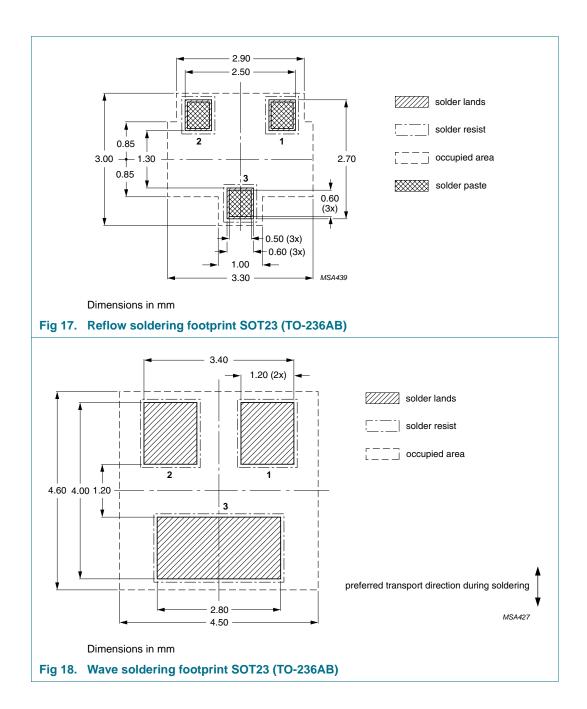
<sup>[1]</sup> For further information and the availability of packing methods, see Section 13.

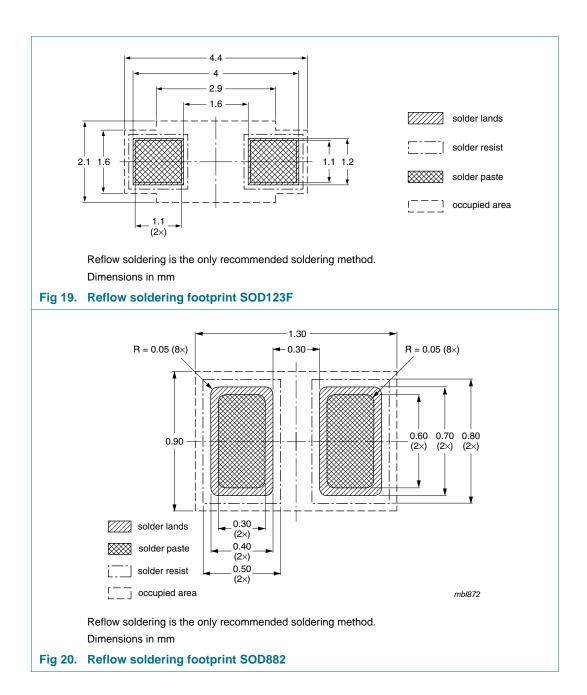
<sup>[2]</sup> T1: normal taping

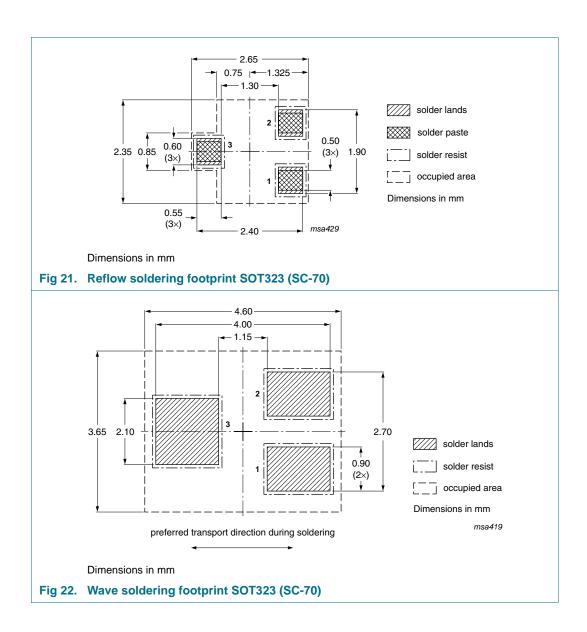
<sup>[3]</sup> T2: reverse taping

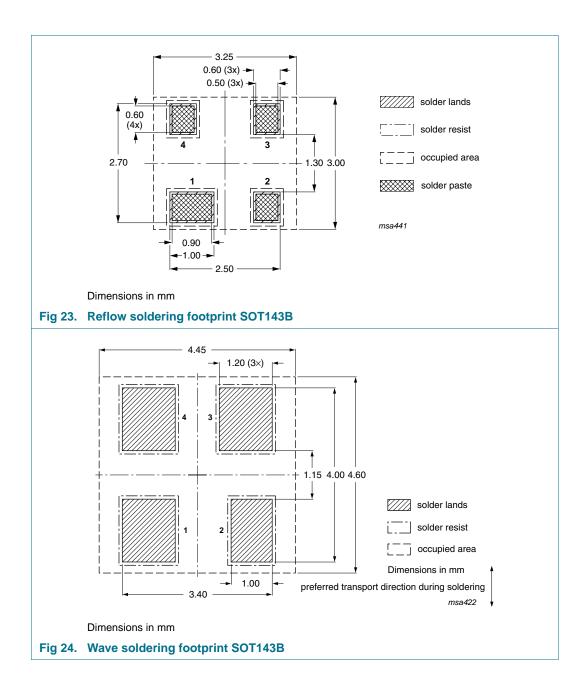
## 10. Soldering

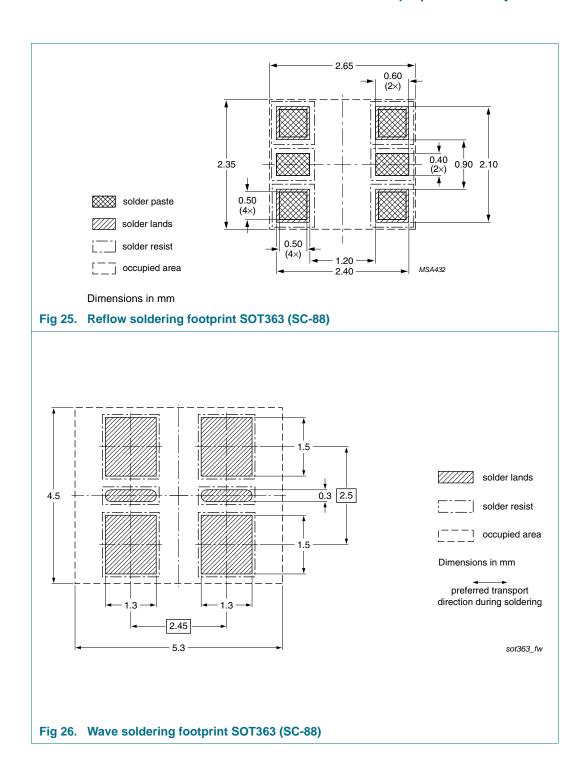


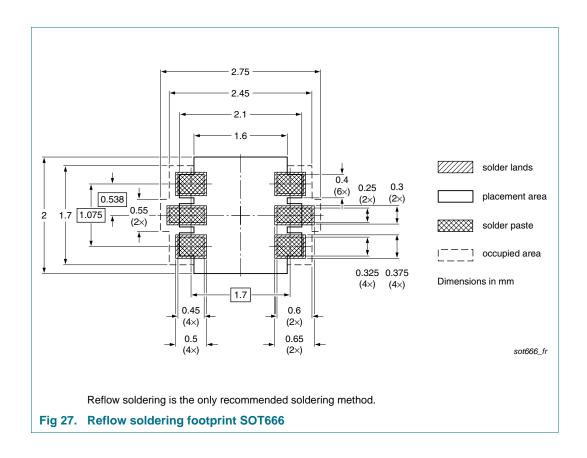












# 11. Revision history

#### 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:				y name NXP Semiconductors, ges were made to the technical
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

# BAS70 series; 1PS7xSB70 series

**General-purpose Schottky diodes** 

### 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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#### **NXP Semiconductors**

# BAS70 series; 1PS7xSB70 series

**General-purpose Schottky diodes** 

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