

# 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**

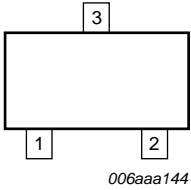
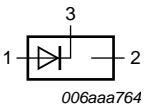
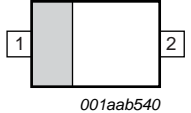
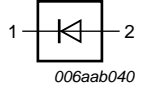
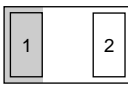
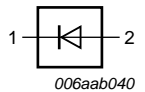
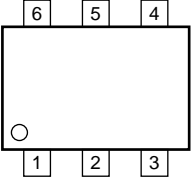
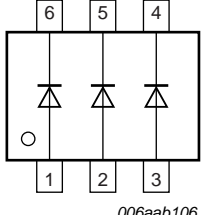
**Table 2. Quick reference data**

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

Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Per diode</b>						
$V_R$	reverse voltage		-	-	100	V
$I_R$	reverse current	$V_R = 80\text{ V}$	-	-	0.5	$\mu\text{A}$
$t_{rr}$	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
<b>BAS16; BAS16T; BAS16W</b>				
1	anode		 <p>006aaa144</p>	 <p>006aaa764</p>
2	not connected			
3	cathode			
<b>BAS16H; BAS16J; BAS316; BAS516</b>				
1	cathode	[1]	 <p>001aab540</p>	 <p>006aab040</p>
2	anode			
<b>BAS16L</b>				
1	cathode	[1]	 <p>Transparent top view</p>	 <p>006aab040</p>
2	anode			
<b>BAS16VV; BAS16VY</b>				
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 <sup>[1]</sup>
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
<b>Per diode</b>					
$V_{RRM}$	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 <sub>F</sub>	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 <sub>FRM</sub>	repetitive peak forward current	t <sub>p</sub> ≤ 0.5 ms; δ ≤ 0.25		-	500	mA
I <sub>FSM</sub>	non-repetitive peak forward current	square wave; T <sub>j(init)</sub> = 25 °C				
		t <sub>p</sub> = 1 μs		-	4	A
		t <sub>p</sub> = 1 ms		-	1	A
		t <sub>p</sub> = 1 s		-	0.5	A
P <sub>tot</sub>	total power dissipation					
	BAS16	T <sub>amb</sub> ≤ 25 °C	[1]	-	250	mW
	BAS16H	T <sub>amb</sub> ≤ 25 °C	[2]	-	380	mW
			[5]	-	830	mW
	BAS16J	T <sub>amb</sub> ≤ 25 °C	[5]	-	550	mW
	BAS16L	T <sub>amb</sub> ≤ 25 °C	[2]	-	250	mW
	BAS16T	T <sub>sp</sub> ≤ 90 °C	[1][4]	-	170	mW
	BAS16VV	T <sub>amb</sub> ≤ 25 °C	[1][3]	-	180	mW
	BAS16VY	T <sub>sp</sub> ≤ 85 °C	[1][3][6]	-	250	mW
	BAS16W	T <sub>amb</sub> ≤ 25 °C	[1]	-	200	mW
	BAS316	T <sub>sp</sub> ≤ 90 °C	[1][4]	-	400	mW
BAS516	T <sub>sp</sub> ≤ 90 °C	[1][4]	-	500	mW	
<b>Per device</b>						
T <sub>j</sub>	junction temperature			-	150	°C
T <sub>amb</sub>	ambient temperature			-65	+150	°C
T <sub>stg</sub>	storage temperature			-65	+150	°C

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

[2] 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 cm<sup>2</sup>.

[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  $\mu\text{m}$  copper strip line.

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

[4] Single diode loaded.

[5] Soldering point of cathode tab.

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

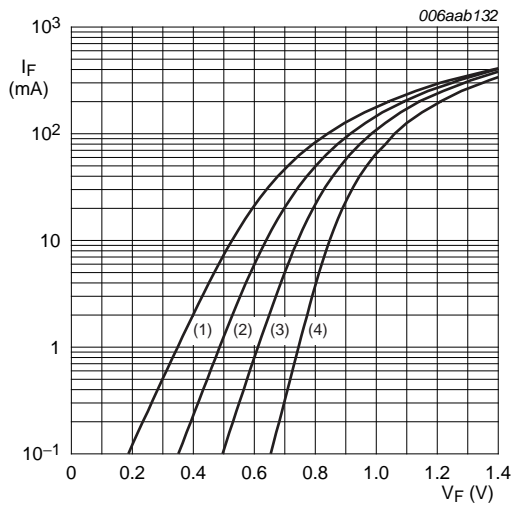
## 7. Characteristics

**Table 8. Characteristics**

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

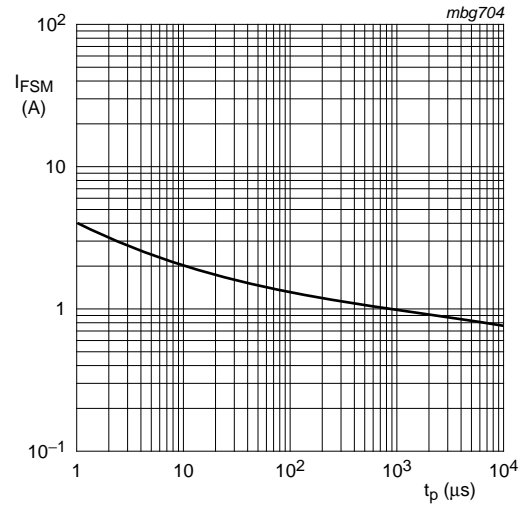
Symbol	Parameter	Conditions	Min	Typ	Max	Unit
<b>Per diode</b>						
$V_F$	forward voltage		[1]			
		$I_F = 1\text{ mA}$	-	-	715	mV
		$I_F = 10\text{ mA}$	-	-	855	mV
		$I_F = 50\text{ mA}$	-	-	1	V
$I_R$	reverse current	$V_R = 25\text{ V}$	-	-	30	nA
		$V_R = 80\text{ V}$	-	-	0.5	$\mu\text{A}$
		$V_R = 25\text{ V}; T_j = 150\text{ °C}$	-	-	30	$\mu\text{A}$
		$V_R = 80\text{ V}; T_j = 150\text{ °C}$	-	-	50	$\mu\text{A}$
$C_d$	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:  $t_p \leq 300\ \mu\text{s}; \delta \leq 0.02$ .



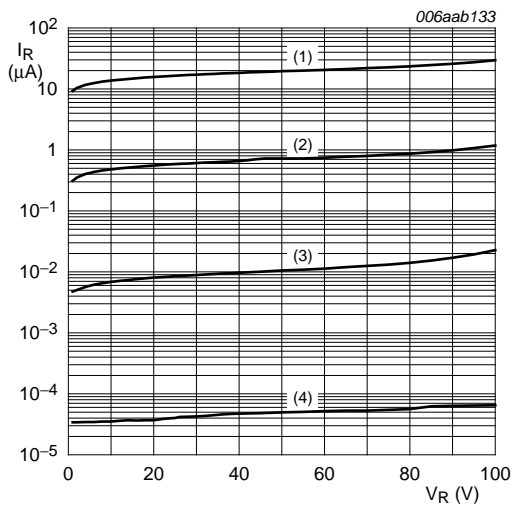
- (1)  $T_{amb} = 150\text{ }^\circ\text{C}$
- (2)  $T_{amb} = 85\text{ }^\circ\text{C}$
- (3)  $T_{amb} = 25\text{ }^\circ\text{C}$
- (4)  $T_{amb} = -40\text{ }^\circ\text{C}$

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



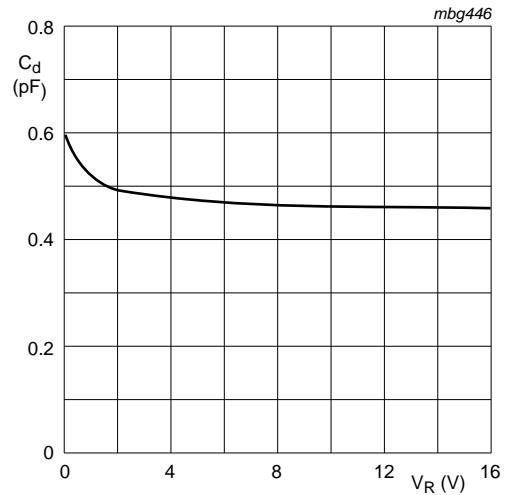
Based on square wave currents.  
 $T_{j(\text{init})} = 25\text{ }^\circ\text{C}$

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



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

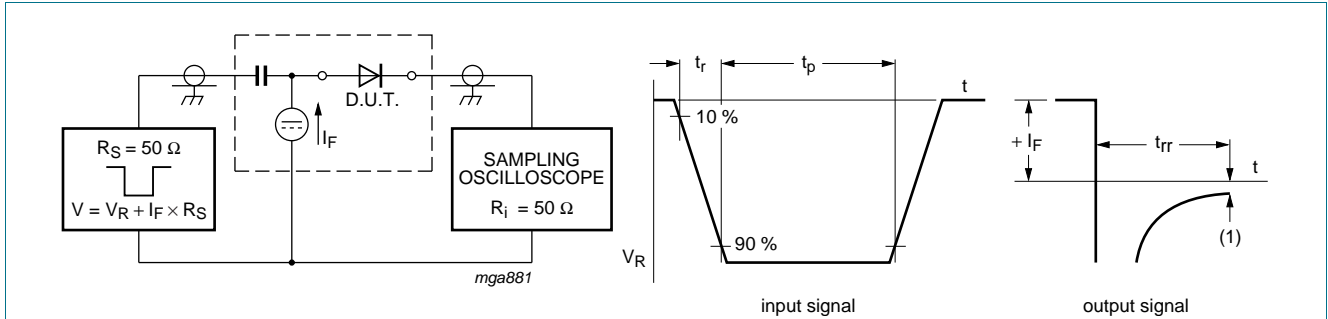
**Fig 3. Reverse current as a function of reverse voltage; typical values**



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

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

**8. Test information**

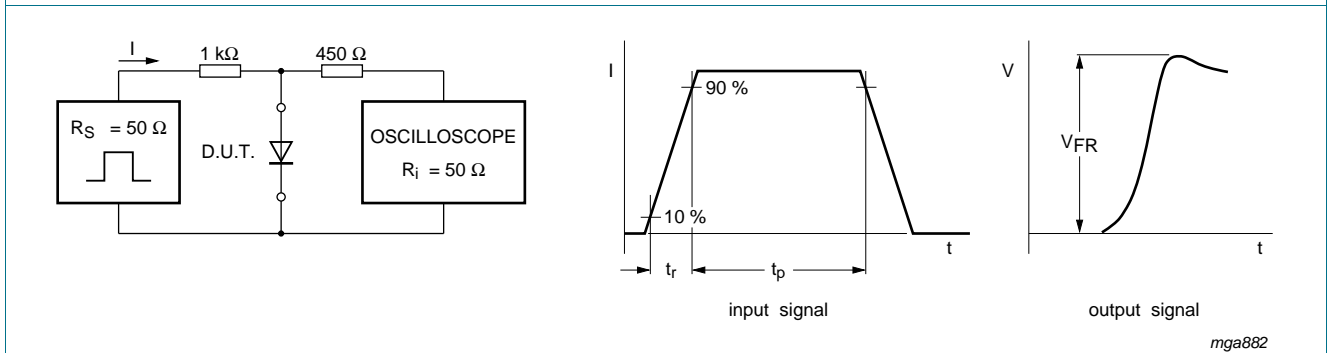


(1)  $I_R = 1 \text{ mA}$

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  $\delta \leq 0.005$

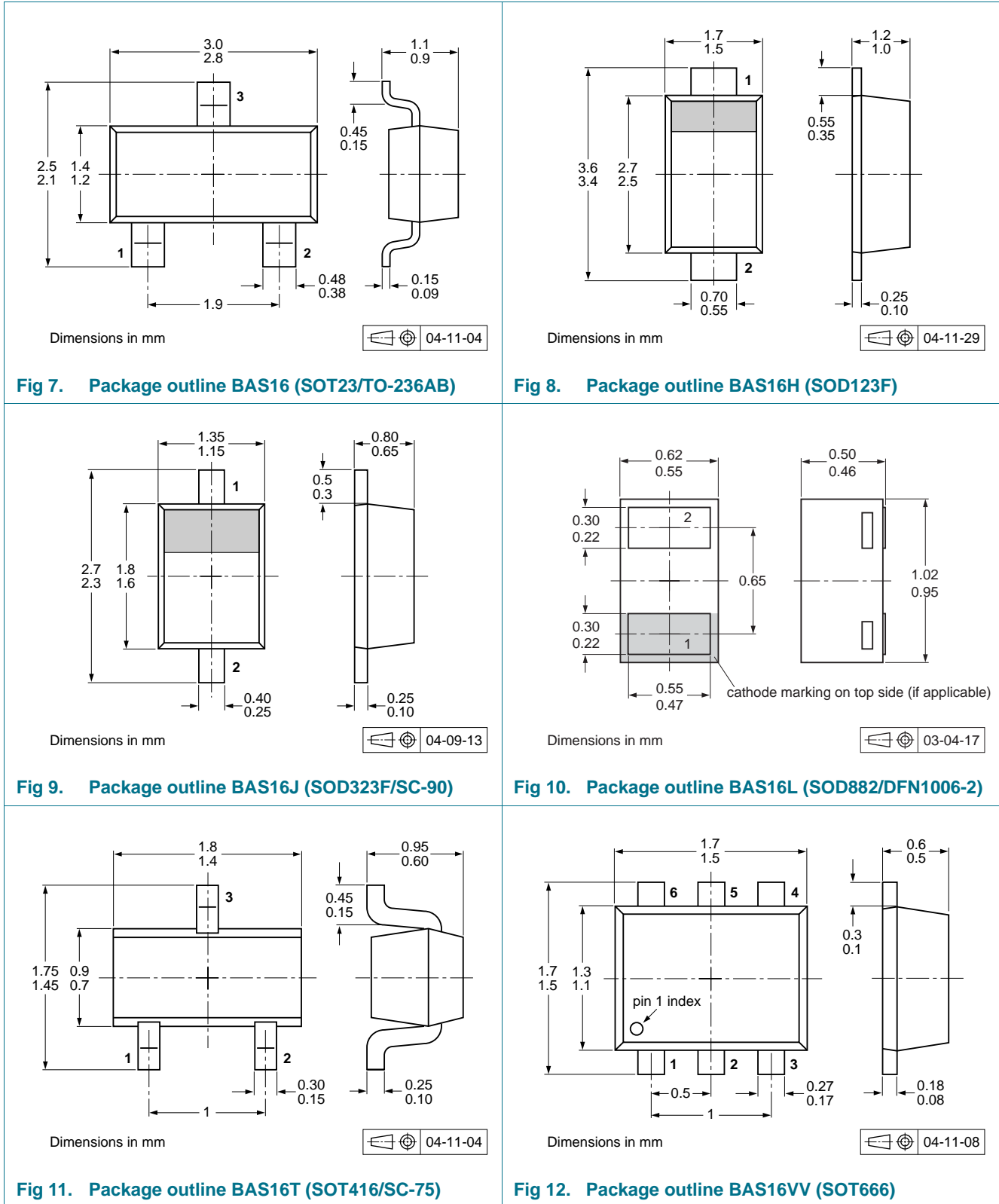
**Fig 6. Forward recovery voltage test circuit and waveforms**

**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**



**Fig 7. Package outline BAS16 (SOT23/TO-236AB)**

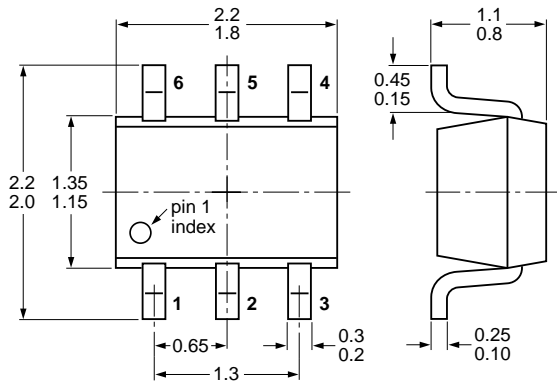
**Fig 8. Package outline BAS16H (SOD123F)**

**Fig 9. Package outline BAS16J (SOD323F/SC-90)**

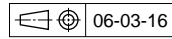
**Fig 10. Package outline BAS16L (SOD882/DFN1006-2)**

**Fig 11. Package outline BAS16T (SOT416/SC-75)**

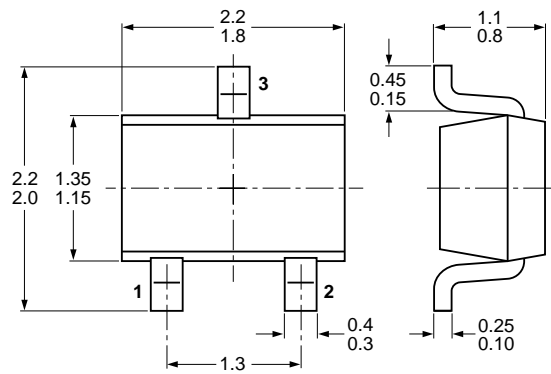
**Fig 12. Package outline BAS16VV (SOT666)**



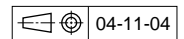
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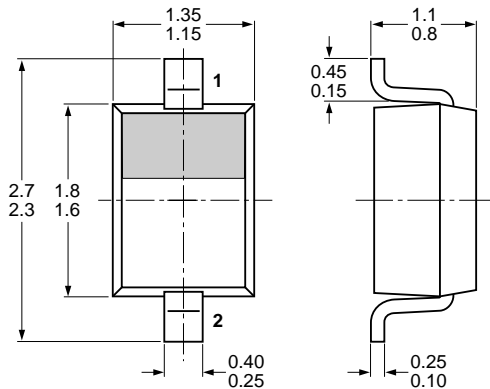
**Fig 13. Package outline BAS16VY (SOT363)**



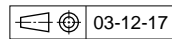
Dimensions in mm



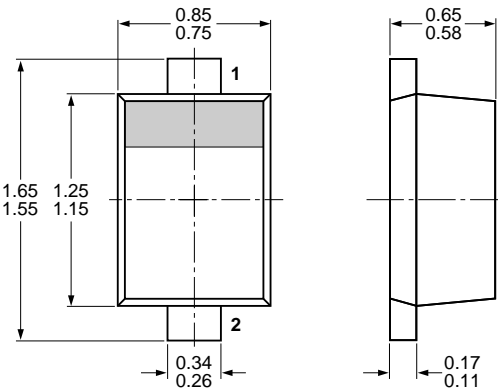
**Fig 14. Package outline BAS16W (SOT323/SC-70)**



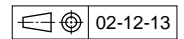
Dimensions in mm



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

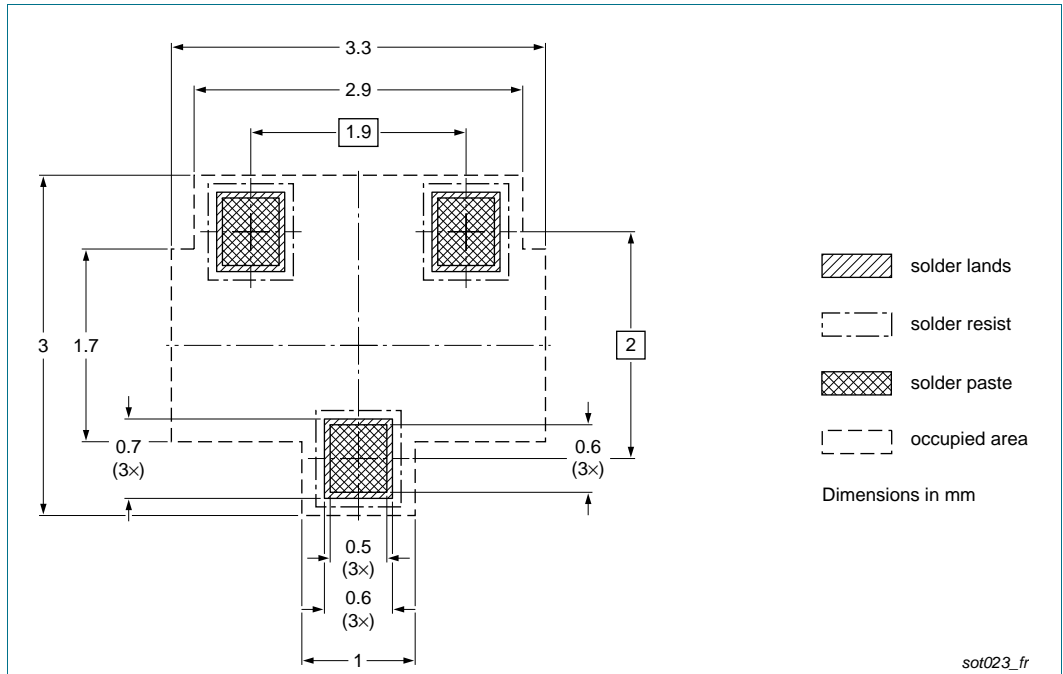


Dimensions in mm

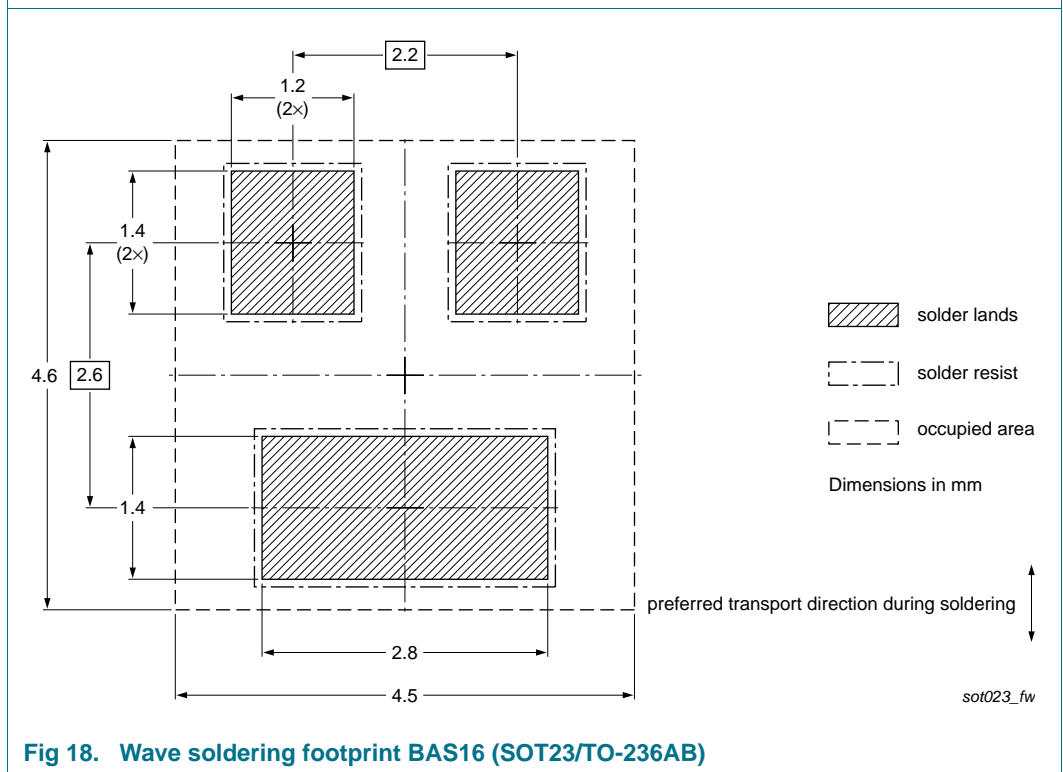


**Fig 16. Package outline BAS516 (SOD523/SC-79)**

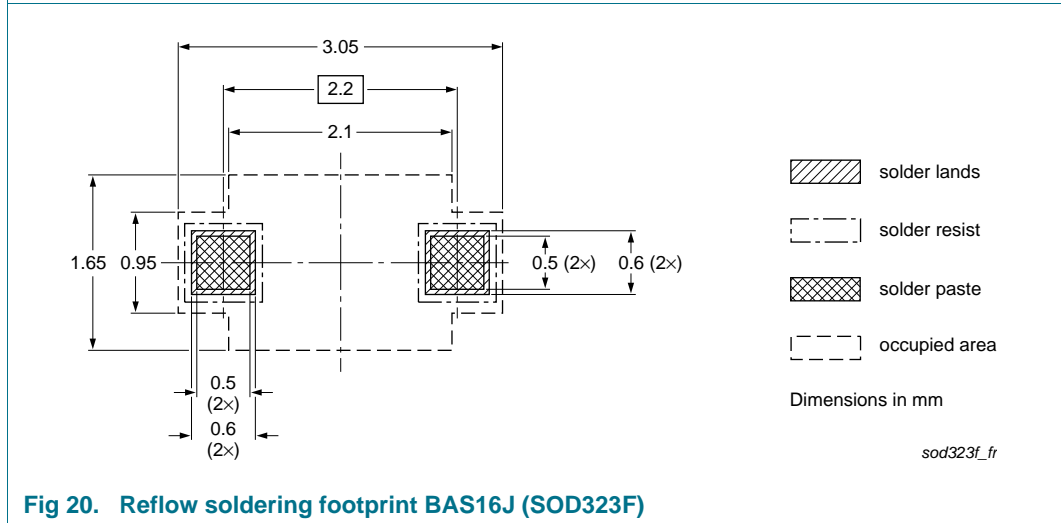
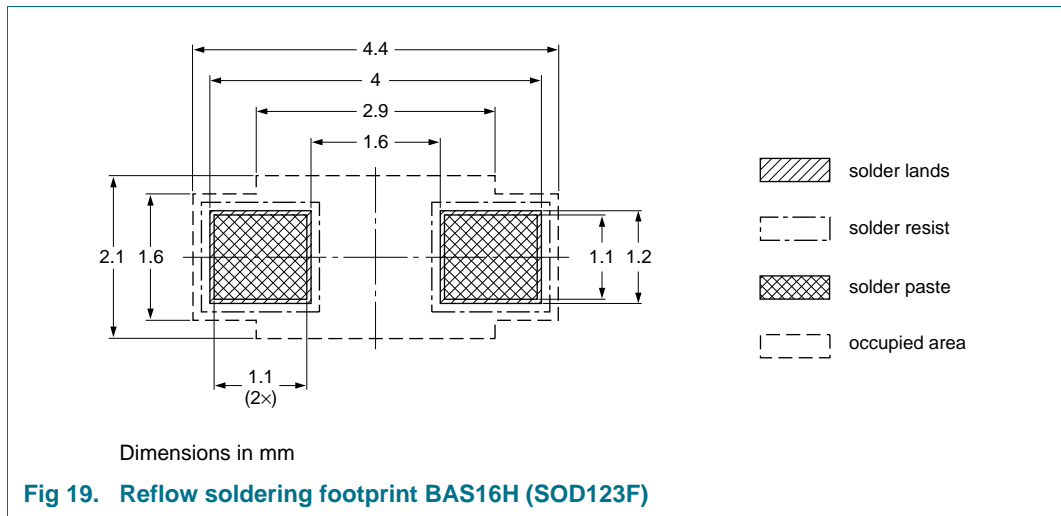
**10. Soldering**

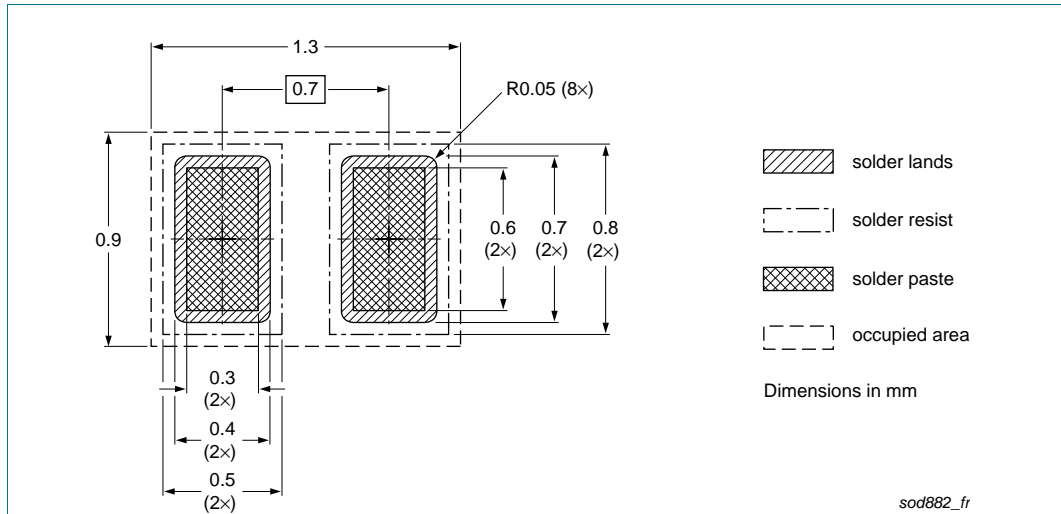


**Fig 17. Reflow soldering footprint BAS16 (SOT23/TO-236AB)**

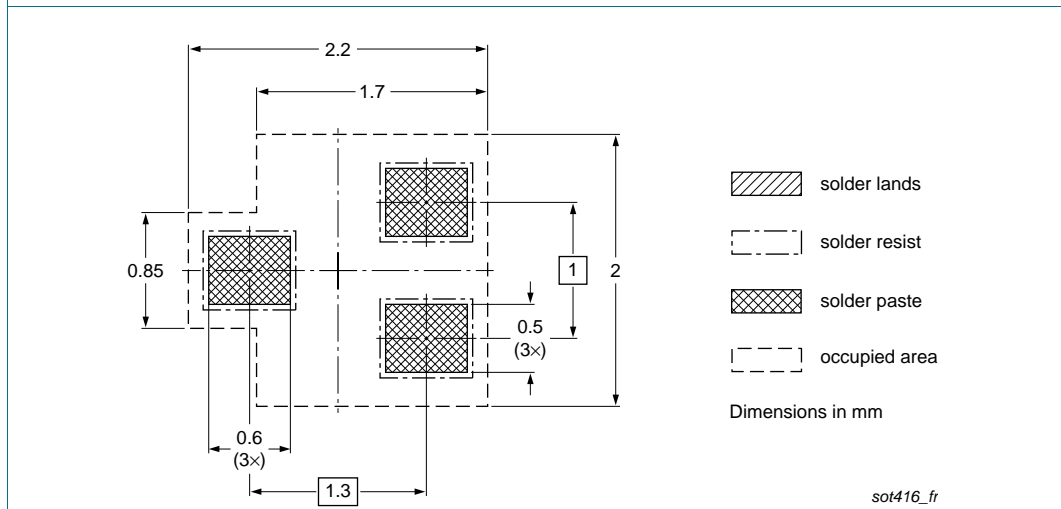


**Fig 18. Wave soldering footprint BAS16 (SOT23/TO-236AB)**



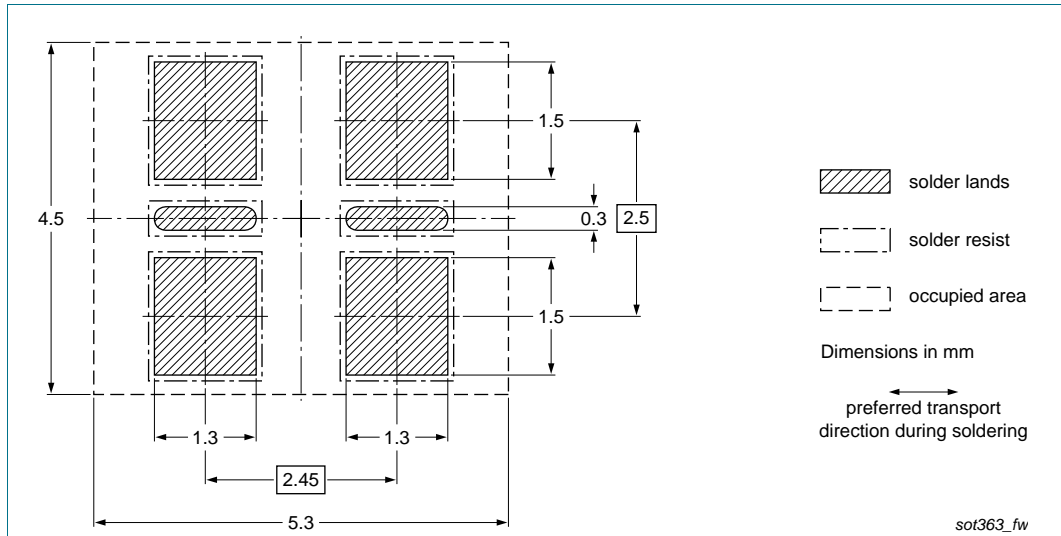


**Fig 21. Reflow soldering footprint BAS16L (SOD882/DFN1006-2)**

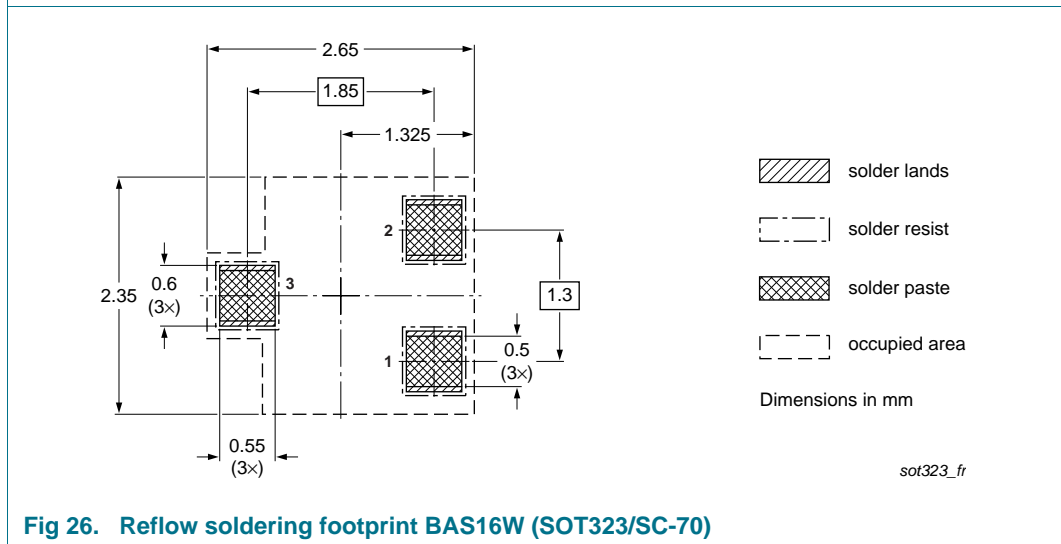


**Fig 22. Reflow soldering footprint BAS16T (SOT416/SC-75)**

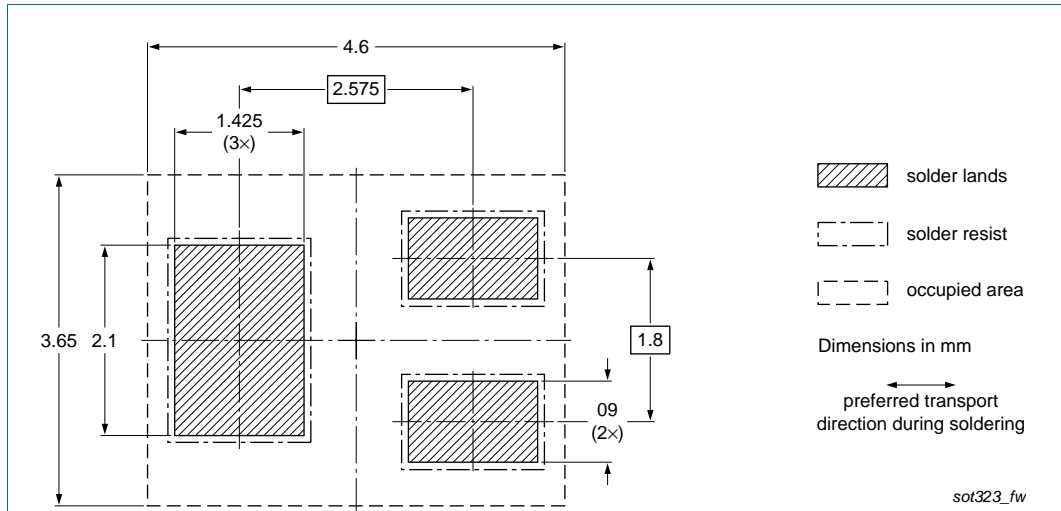




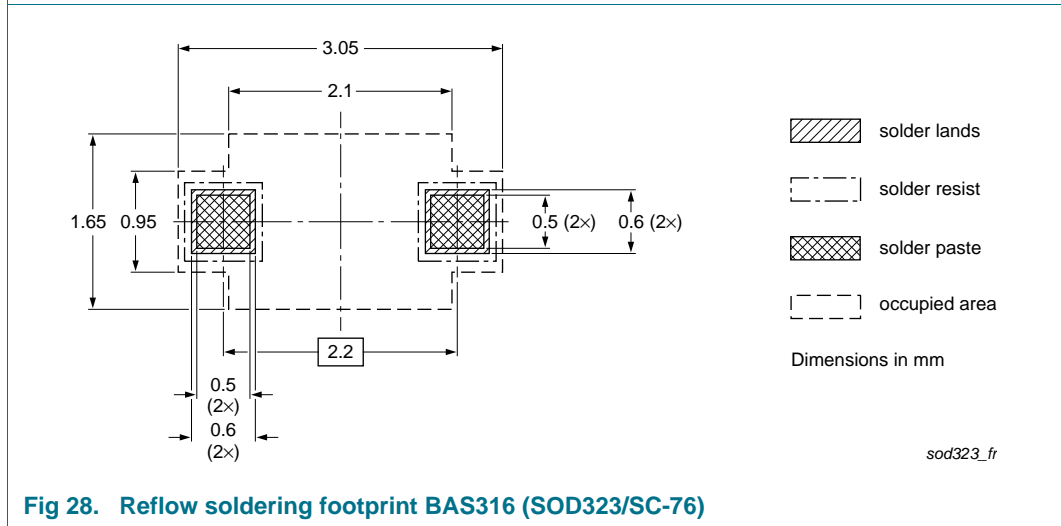
**Fig 25. Wave soldering footprint BAS16VY (SOT363/SC-88)**



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

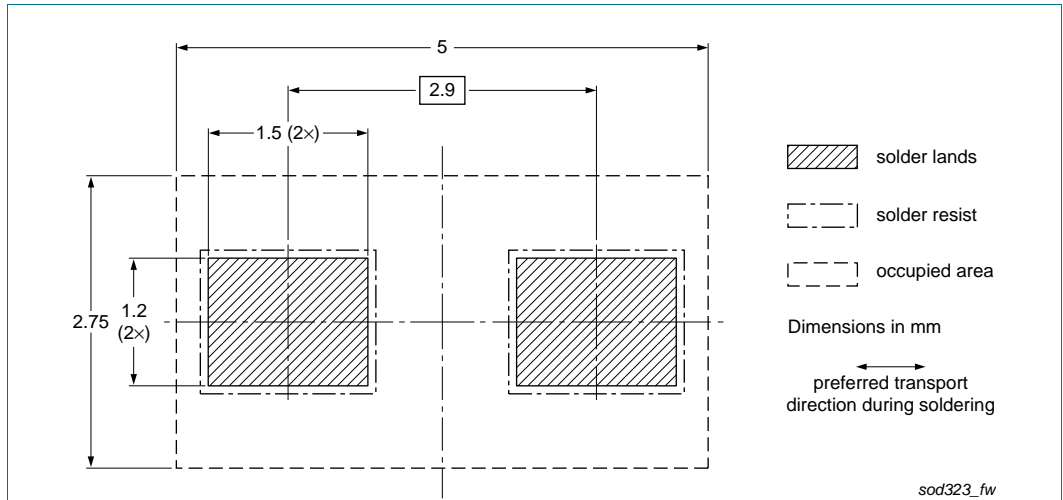


**Fig 27. Wave soldering footprint BAS16W (SOT323/SC-70)**

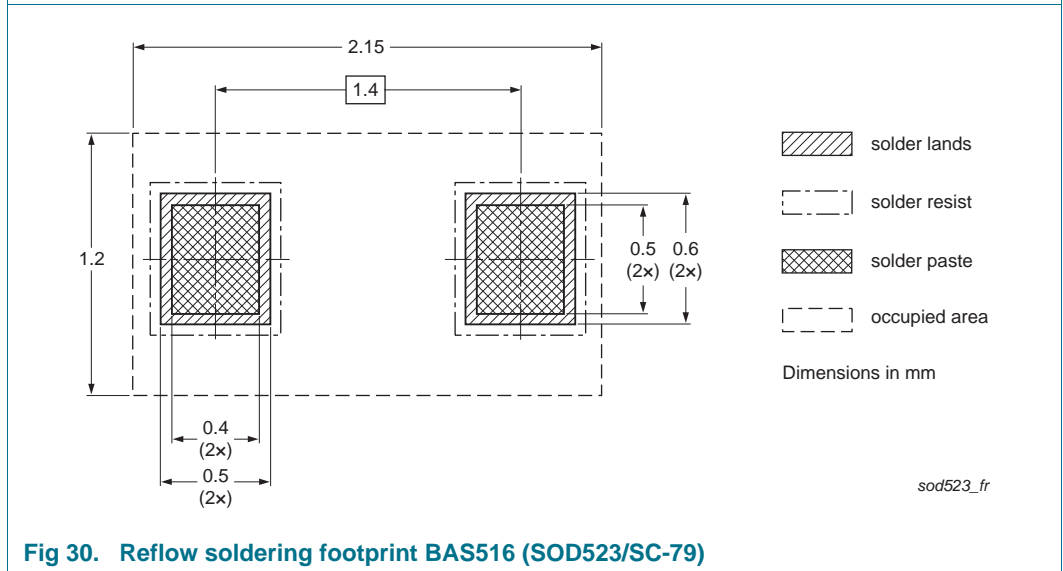


**Fig 28. Reflow soldering footprint BAS316 (SOD323/SC-76)**





**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"> <li>• <a href="#">Section 1.2 “Features and benefits”</a>: updated</li> <li>• <a href="#">Section 4 “Marking”</a>: updated</li> <li>• <a href="#">Table 6 “Limiting values”</a>: updated</li> <li>• <a href="#">Section 8 “Test information”</a>: updated</li> <li>• <a href="#">Section 12 “Legal information”</a>: updated</li> </ul>			
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 <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>.

### 12.2 Definitions

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## 13. 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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