



# SOT8009

plastic, leadless extremely thin small outline package with side-wettable flanks (SWF); 3 terminals; 0.8 mm pitch; 1.4 mm x 1.2 mm x 0.48 mm body

23 June 2020

Package information

## 1. Package summary

<b>Terminal position code</b>	B (bottom)
<b>Package type descriptive code</b>	DFN1412D-3
<b>Package type industry code</b>	DFN1412D-3
<b>Package style descriptive code</b>	XSON (extremely thin small outline; no leads)
<b>Package body material type</b>	P (plastic)
<b>JEDEC package outline code</b>	MO-340CA
<b>Mounting method type</b>	S (surface mount)
<b>Number of package outline detail graphic references</b>	0
<b>Issue date</b>	6-12-2019
<b>Manufacturer package code</b>	SOT8009
<b>Footprint dimensions (mm)</b>	2 x 1.7
<b>Footprint area (mm<sup>2</sup>)</b>	3.4

Table 1. Package summary

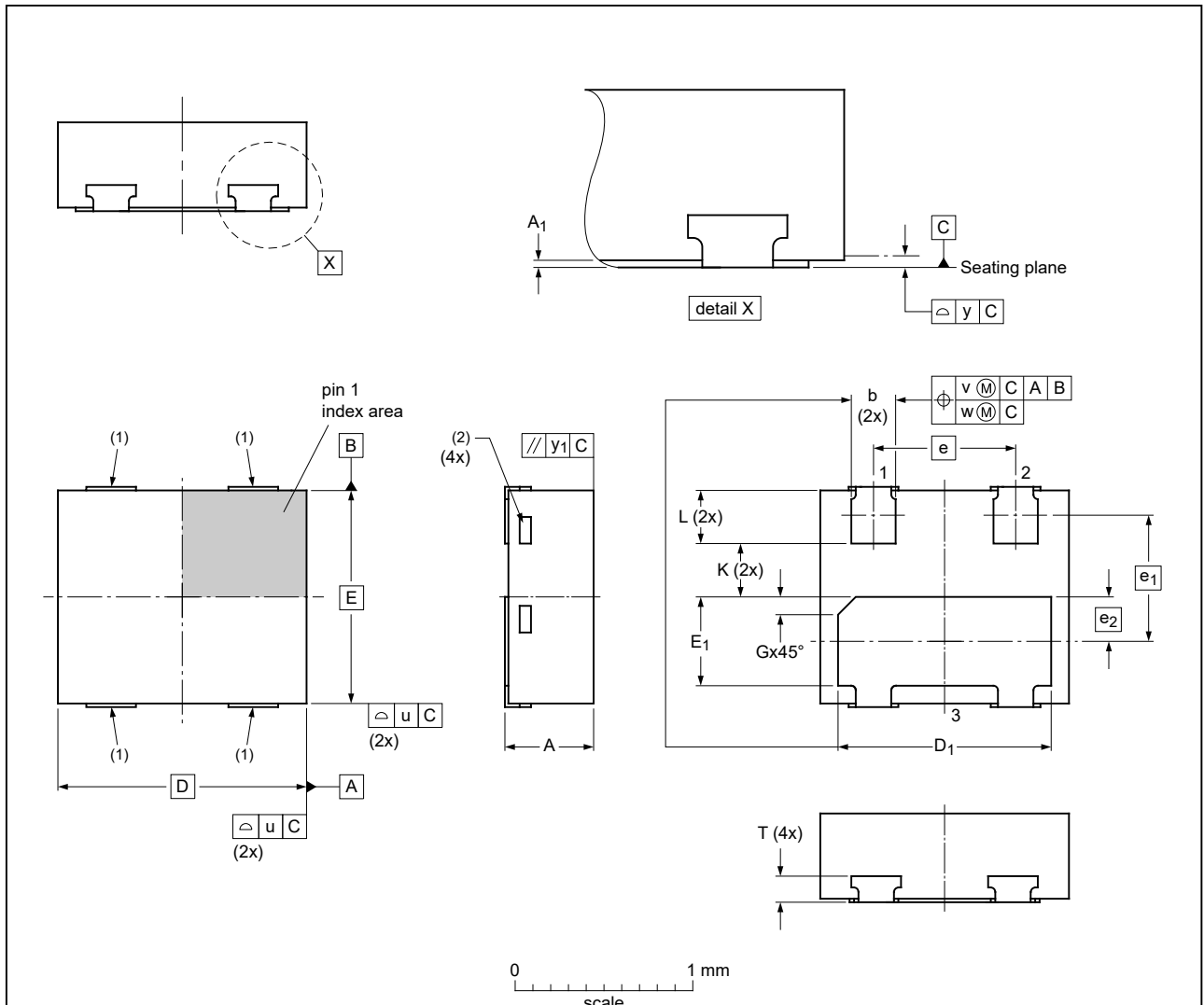
Symbol	Parameter	Min	Typ	Nom	Max	Unit
D	package length	-	-	1.4	-	mm
E	package width	-	-	1.2	-	mm
A	seated height	0.44	-	0.47	0.5	mm
e	nominal pitch	-	-	0.8	-	mm
e <sub>1</sub>	minimal pitch	-	-	0.71	-	mm
n <sub>2</sub>	actual quantity of termination	-	-	3	-	

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## 2. Package outline

DFN1412D-3: plastic, leadless extremely thin small outline package with side-wettable flanks (SWF); 3 terminals; 0.8 mm pitch; 1.4 mm x 1.2 mm x 0.48 mm body

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Dimensions (mm are the original dimensions)

Unit	A	A <sub>1</sub>	b	D	D <sub>1</sub>	E	E <sub>1</sub>	e	e <sub>1</sub>	e <sub>2</sub>	G	K	L	T	u	v	w	y	y <sub>1</sub>
max	0.50	0.04	0.30	1.25	0.55								0.35	0.22					
nom	0.47		0.25	1.4	1.2	0.50	0.8	0.71	0.26	0.09	(ref)		0.30	0.16	0.05	0.1	0.05	0.05	0.05
min	0.44		0.22	1.17	0.47							0.25	0.27	0.10					

Note

- Side Wettable Flank, protrusion max. 0.02 mm.
  - Visible depend upon used manufacturing technology.
- Dimension A and T are including plating thickness.

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Outline version	References				European projection	Issue date
	IEC	JEDEC	JEITA			
SOT8009		MO-340CA				19-12-04 19-12-06

Fig. 1. Package outline DFN1412D-3 (SOT8009)

plastic, leadless extremely thin small outline package with side-wettable flanks (SWF); 3 terminals; 0.8 mm pitch; 1.4 mm x 1.2 mm x 0.48 mm body

### 3. Soldering

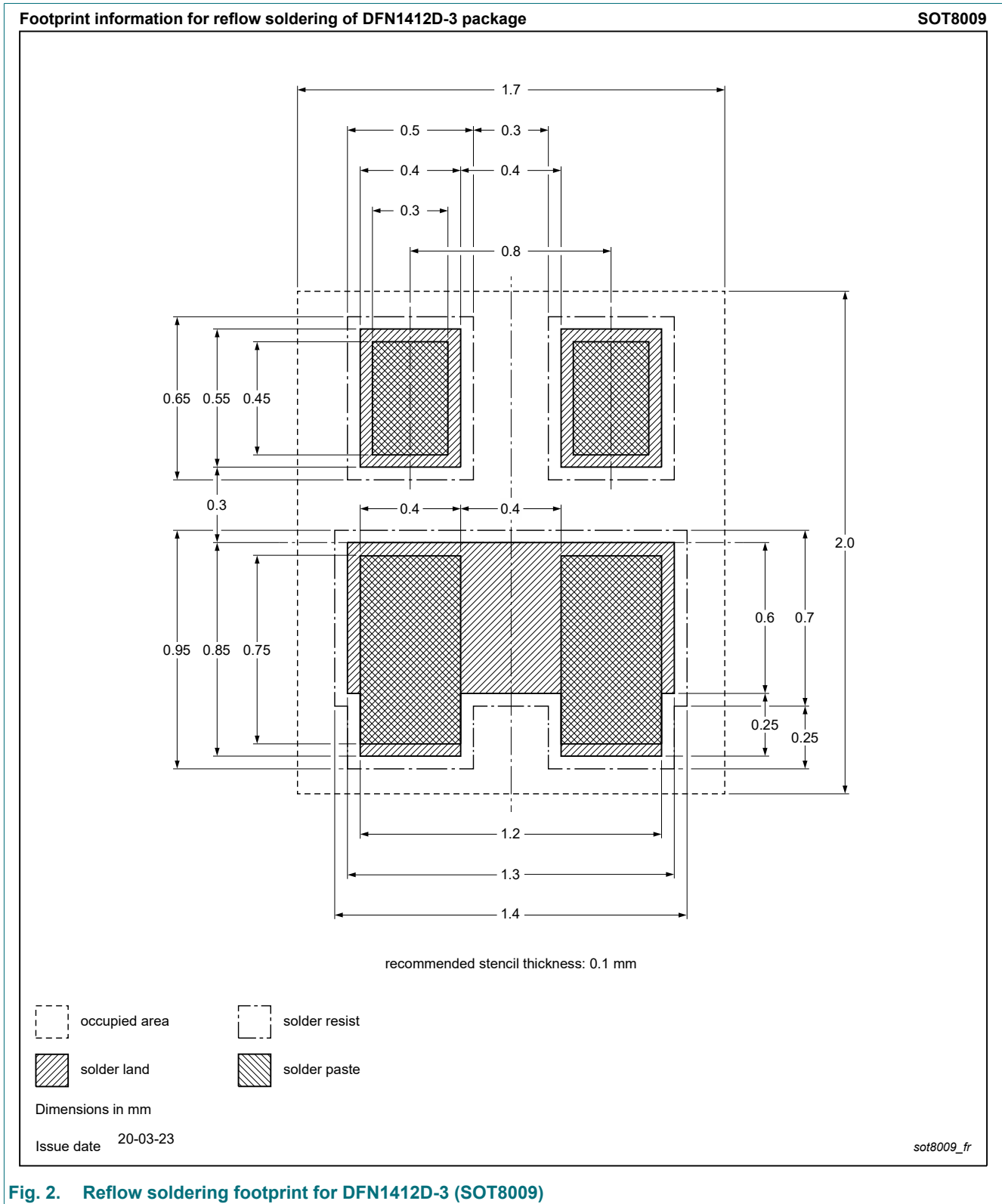


Fig. 2. Reflow soldering footprint for DFN1412D-3 (SOT8009)

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