M24C64S-FCU package mechanical data modifications

Silicon identification

This errata sheet applies to the M24C64S-FCU, that is the 64 Kbit serial I²C bus EEPROM delivered in WLCSP four balls.

Table 1 shows the list of part numbers.

Table 1. Device summary

Reference	Part Number
M24C64S-FCU	M24C64S-FCU6T/T, M24C64S-FCU6T/TF

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1   M24C64S-FCU physical product change

There isn't any physical product change.

Figure 1 shows the package outline.

Figure 1. Ultra Thin WLCSP- 4-bump, 0.851 x 0.851 mm, wafer level chip scale package outline
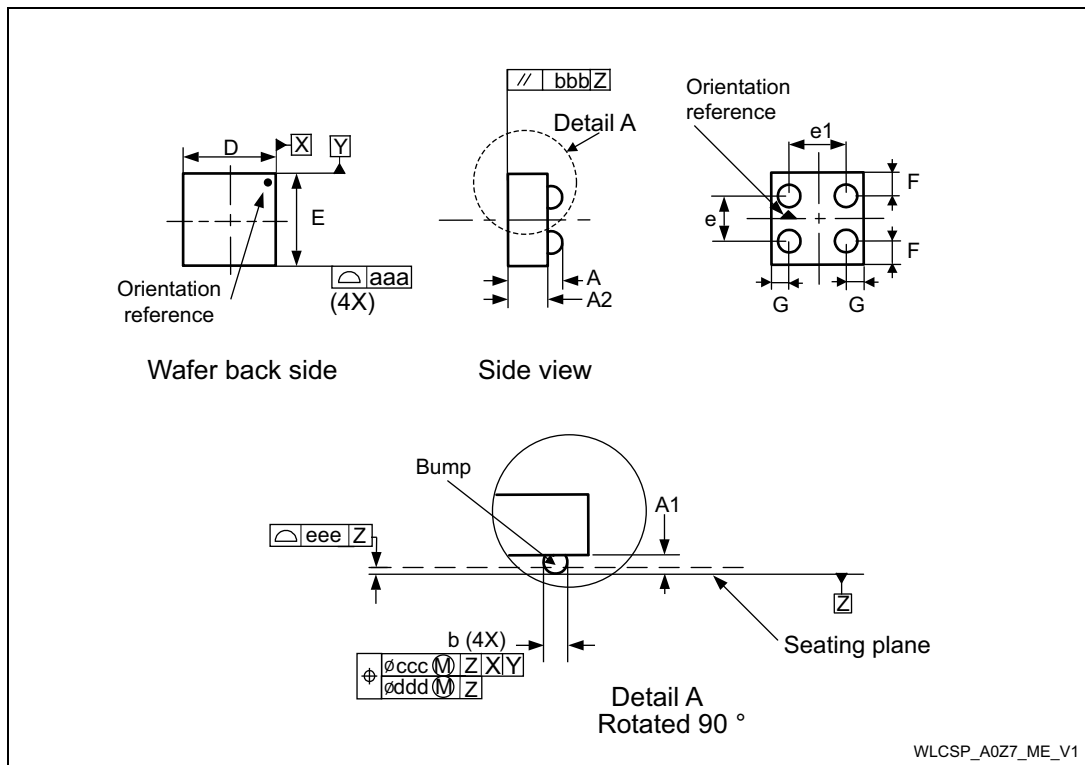
The figures below show the difference between D and E dimension in the front side view (see *Figure 2*), back side (see *Figure 3*) and side view (see *Figure 4*).
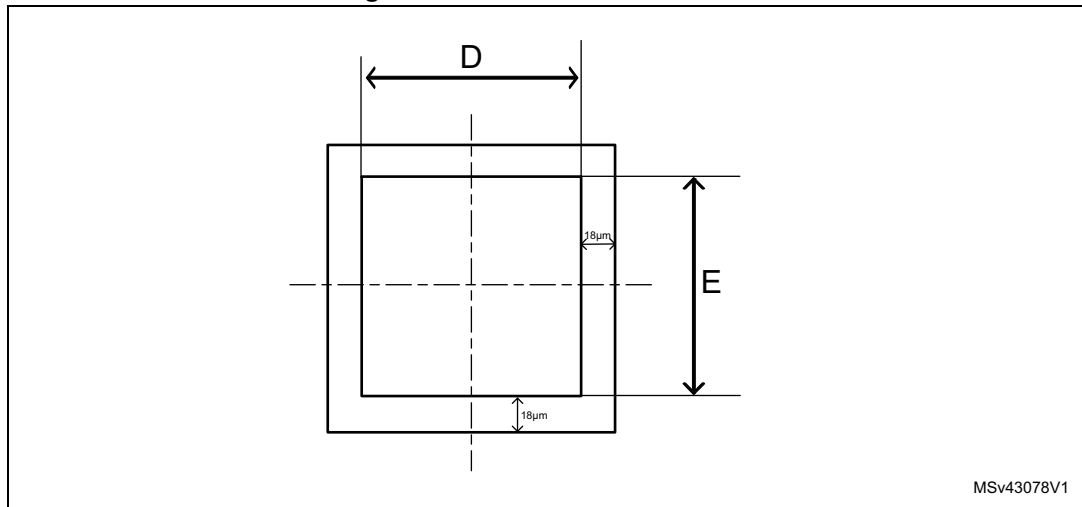
Figure 2. D and E front side view

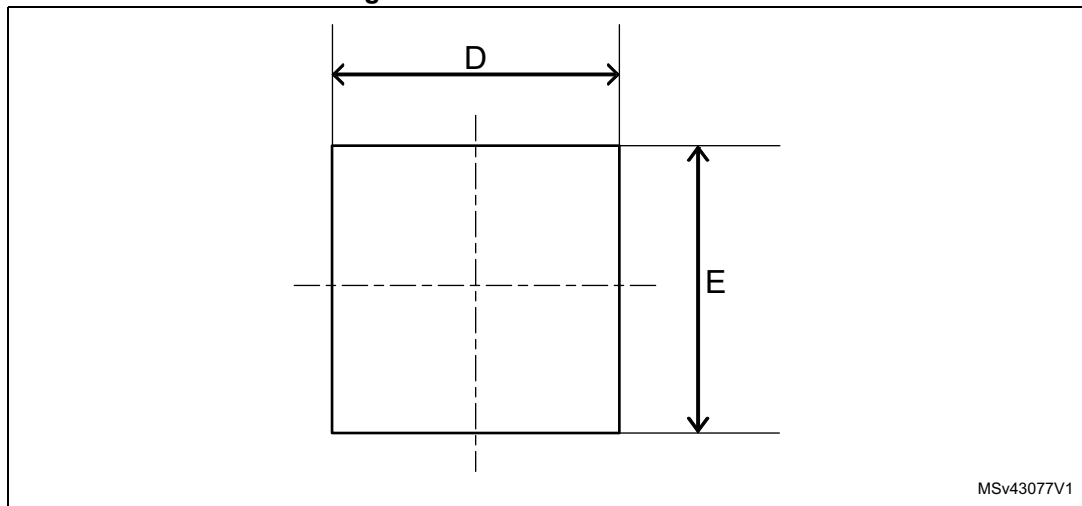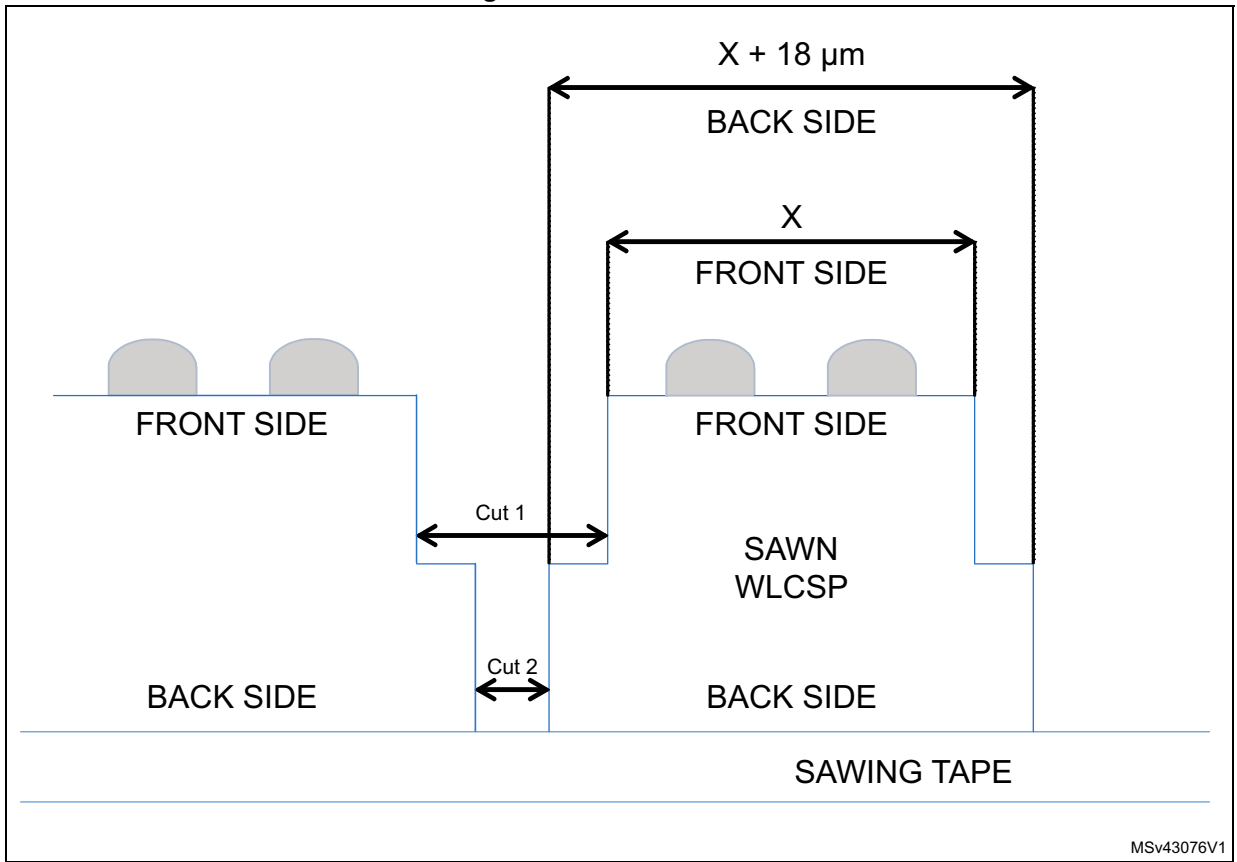**Figure 3. D and E back side view**

Figure 4. D or E side view

2 Package mechanical data modifications

This document refers to the changes of dimensions D and E (see *Figure 3*) described in the M24C64S-FCU datasheet, in tables detailing the dimensions of the Ultra Thin WLCSP 4-bump package.

D and E values must be modified to correct the following mistake:

- The D and E values on M24C64S-FCU datasheet corresponding to front side view (ball side) as shown in *Table 2*, instead of back side view (marking side view) as shown in *Table 3*.

Table 2. D and E values corresponding to front side view

Symbol	Millimeters			Inches		
	Min	**Typ**	**Max**	**Min**	**Typ**	**Max**
D	-	0.833	0.853	-	0.0328	0.0336
E	-	0.833	0.853	-	0.0328	0.0336

Table 3. D and E values corresponding to back side view

Symbol	Millimeters			Inches		
	Min	**Typ**	**Max**	**Min**	**Typ**	**Max**
D	0.831	0.851	0.871	0.0327	0.0335	0.0343
E	0.831	0.851	0.871	0.0327	0.0335	0.0343

The difference between back side and front side dimension is 18 µm (0.018 mm). This difference is due to two-step sawing process, where cut 1 and cut 2 are performed with blades having different thickness (see *Figure 4* in which X represents D or E and it has the same value and tolerance).

3 Revision history

Table 4. Document revision history

Date	Revision	Changes
04-Jul-2016	1	Initial release.

IMPORTANT NOTICE – PLEASE READ CAREFULLY