

SOT2027-1

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

3 October 2022

Package information

1 Package summary

Terminal position code	B (bottom)
Package type descriptive code	FBGA780
Package style descriptive code	FBGA (fine-pitch ball grid array)
Package body material type	P (plastic)
Mounting method type	S (surface mount)
Issue date	13-09-2022
Manufacturer package code	98ASA01441D

Table 1. Package summary

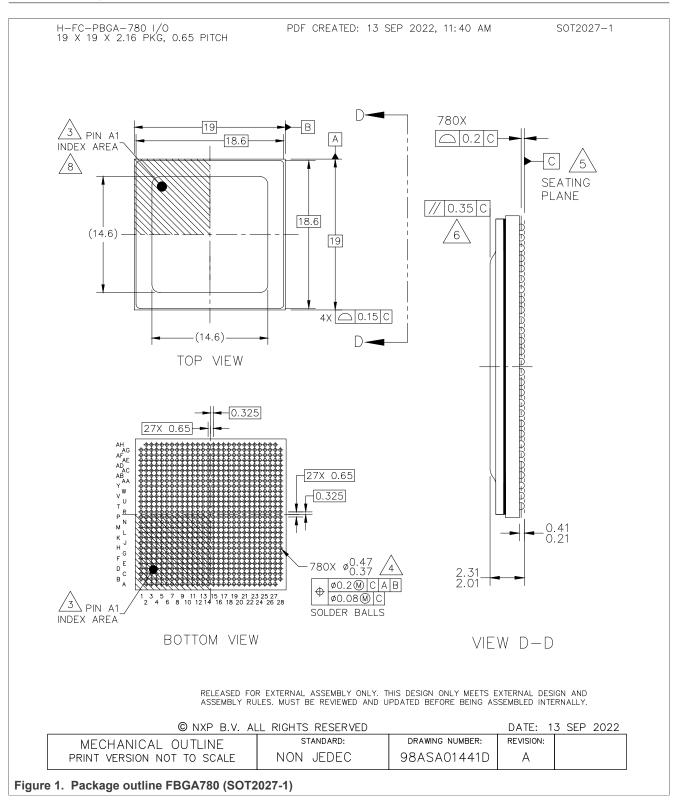
Parameter	Min	Nom	Мах	Unit
package length	-	19	-	mm
package width	-	19	-	mm
seated height	2.01	2.16	2.31	mm
nominal pitch	-	0.65	-	mm
actual quantity of termination	-	780	-	



SOT2027-1

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

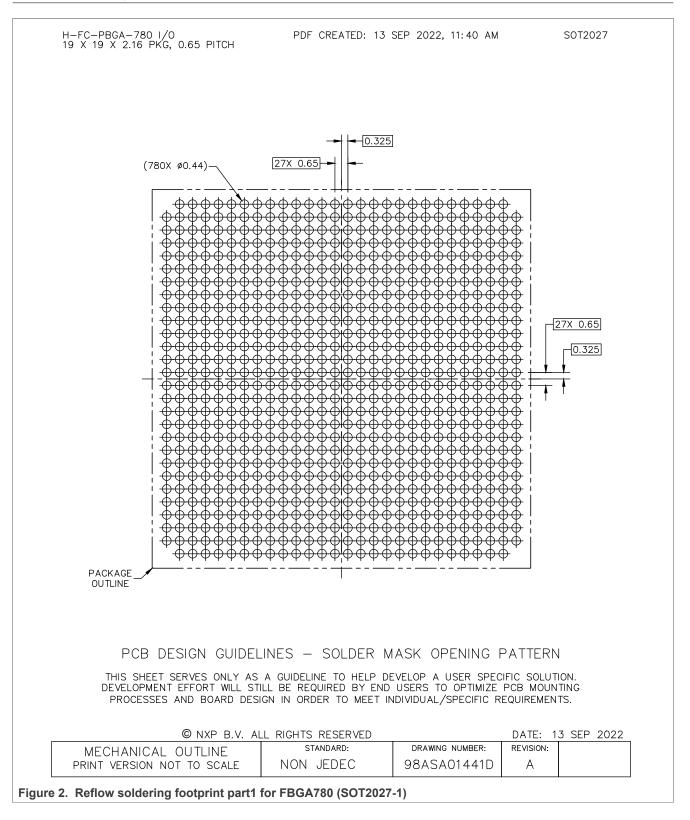
2 Package outline



SOT2027-1
Package information

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

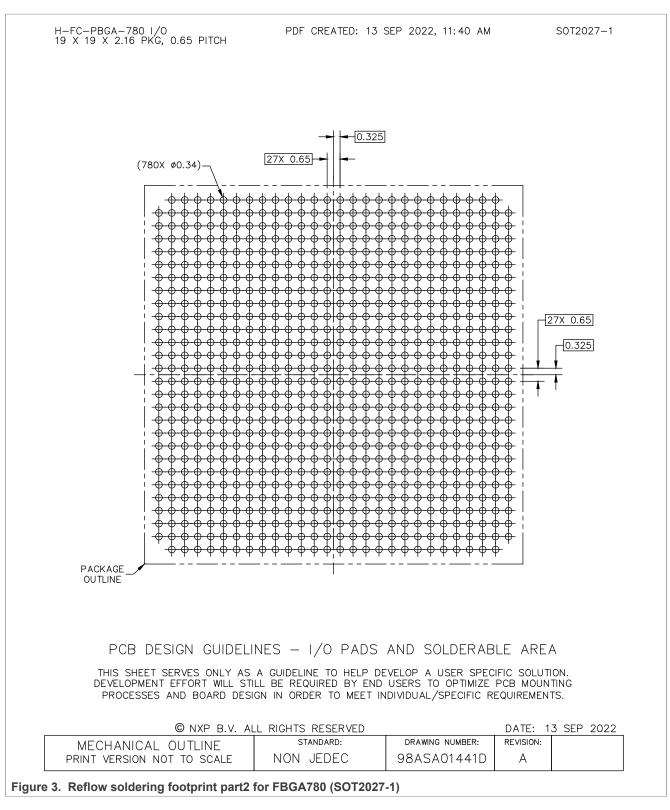
3 Soldering



SOT2027-1

NXP Semiconductors

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

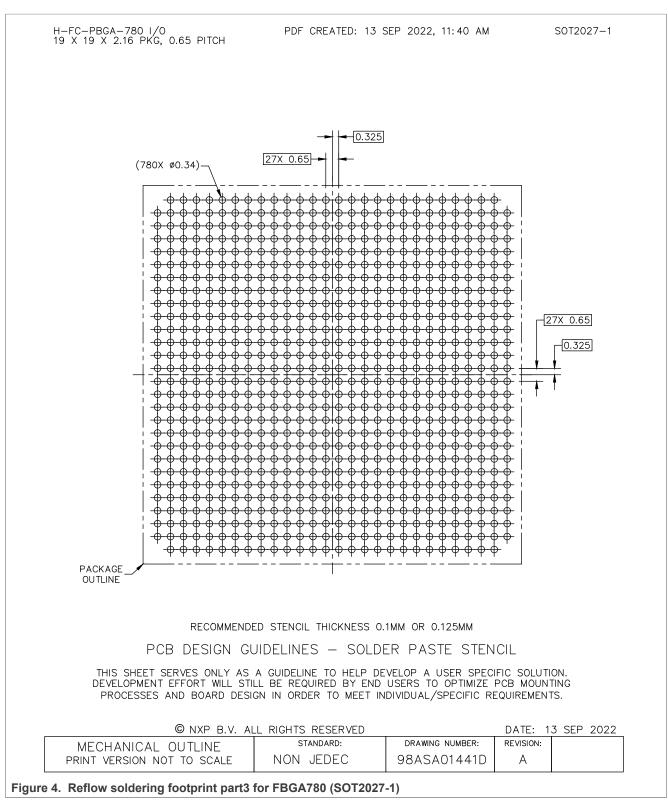


SOT2027-1 Package information

4/8

SOT2027-1

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body



SOT2027-1 Package information

SOT2027-1

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

19 X	PBGA780 I/O 19 X 2.16 PKG, 0.65 PITCH		SEP 2022, 11:40 AM	S0T2027	
NC	DTES:				
1.	ALL DIMENSIONS IN MILLIMETERS				
2.	DIMENSIONING AND TOLERANCING	G PER ASME Y14.5M-199	94.		
<u>/3.</u>	$_{ m S}$ PIN A1 FEATURE SHAPE, SIZE A	ND LOCATION MAY VARY	1.		
4	MAXIMUM SOLDER BALL DIAMETE	R MEASURED PARALLEL	TO DATUM C.		
<u>/5.</u>	DATUM C, THE SEATING PLANE, SOLDER BALLS.	IS DETERMINED BY THE	SPHERICAL CROWNS	OF THE	
<u>/6.</u>	A PARALLELISM MEASUREMENT SHA	ALL EXCLUDE ANY EFFEC	CT OF MARK ON TOP	SURFACE	
7.	LID OVERHANG ON SUBSTRATE N	NOT ALLOWED.			
8.	VENT AREA BETWEEN LID AND S	SUBSTRATE, SIZE MAY V	ARY.		
				DATE: 13 SEP 20	22
	© NXP B.V. AL	L RIGHIS RESERVED			
	© NXP B.V. AL MECHANICAL OUTLINE NT VERSION NOT TO SCALE	STANDARD: NON JEDEC	DRAWING NUMBER: 98ASA01441D	REVISION: A	

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

4 Legal information

Disclaimers

Limited warranty and liability — Information in this document is believed to be accurate and reliable. However, NXP Semiconductors does not give any representations or warranties, expressed or implied, as to the accuracy or completeness of such information and shall have no liability for the consequences of use of such information. NXP Semiconductors takes no responsibility for the content in this document if provided by an information source outside of NXP Semiconductors.

In no event shall NXP Semiconductors be liable for any indirect, incidental, punitive, special or consequential damages (including without limitation - lost profits, lost savings, business interruption, costs related to the removal or replacement of any products or rework charges) whether or not such damages are based on tort (including negligence), warranty, breach of contract or any other legal theory.

Notwithstanding any damages that customer might incur for any reason whatsoever, NXP Semiconductors' aggregate and cumulative liability towards customer for the products described herein shall be limited in accordance with the Terms and conditions of commercial sale of NXP Semiconductors.

Right to make changes — NXP Semiconductors reserves the right to make changes to information published in this document, including without limitation specifications and product descriptions, at any time and without notice. This document supersedes and replaces all information supplied prior to the publication hereof.

SOT2027-1

FBGA780, fine-pitch ball grid array package, 780 terminals, 0.65 mm pitch, 19 mm x 19 mm x 2.16 mm body

Contents

1	Package summary1
2	Package outline2
3	Soldering3
4	Legal information7

© NXP B.V. 2022.

For more information, please visit: http://www.nxp.com For sales office addresses, please send an email to: salesaddresses@nxp.com Date of release: 3 October 2022