



SOT506-2

plastic, low profile quad; flat leaded package; 176 terminals;
0.50 mm pitch; 24 mm x 24 mm x 1.4 mm body

15 December 2016

Package information

1. Package summary

Terminal position code	Q (quad)
Package type descriptive code	LQFP
Package type industry code	LQFP176
Package style descriptive code	LQFP (low profile quad flat package)
Package body material type	P (plastic)
JEDEC package outline code	MS-026 BGA
Mounting method type	S (surface mount)
Issue date	30-5-2016
Manufacturer package code	98ASS23479W

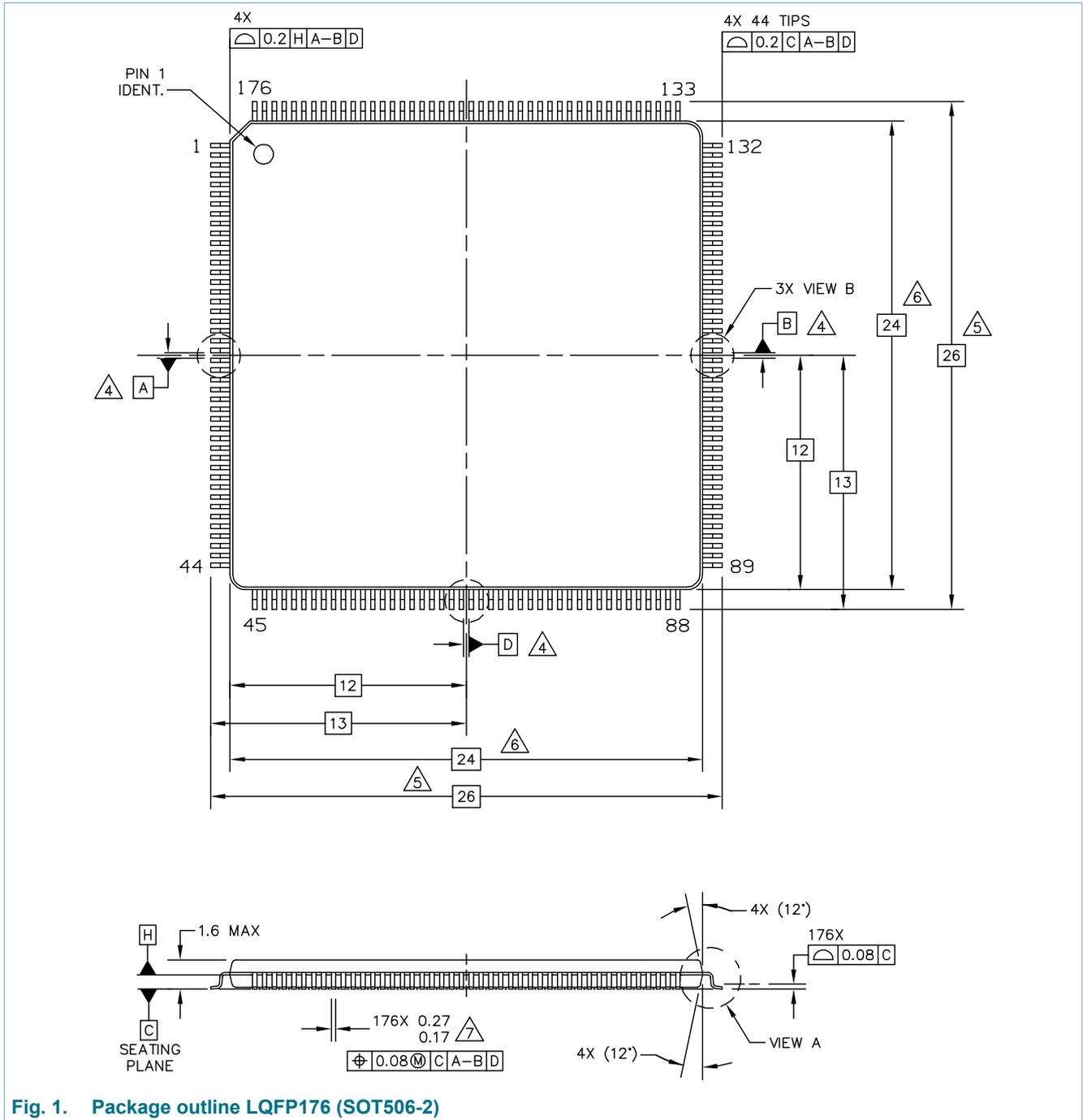
Table 1. Package summary

Symbol	Parameter	Min	Typ	Nom	Max	Unit
D	package length	-	-	24	-	mm
E	package width	-	-	24	-	mm
A	seated height	-	-	1.4	1.6	mm
e	nominal pitch	-	-	0.5	-	mm
n ₂	actual quantity of termination	-	-	176	-	



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2. Package outline



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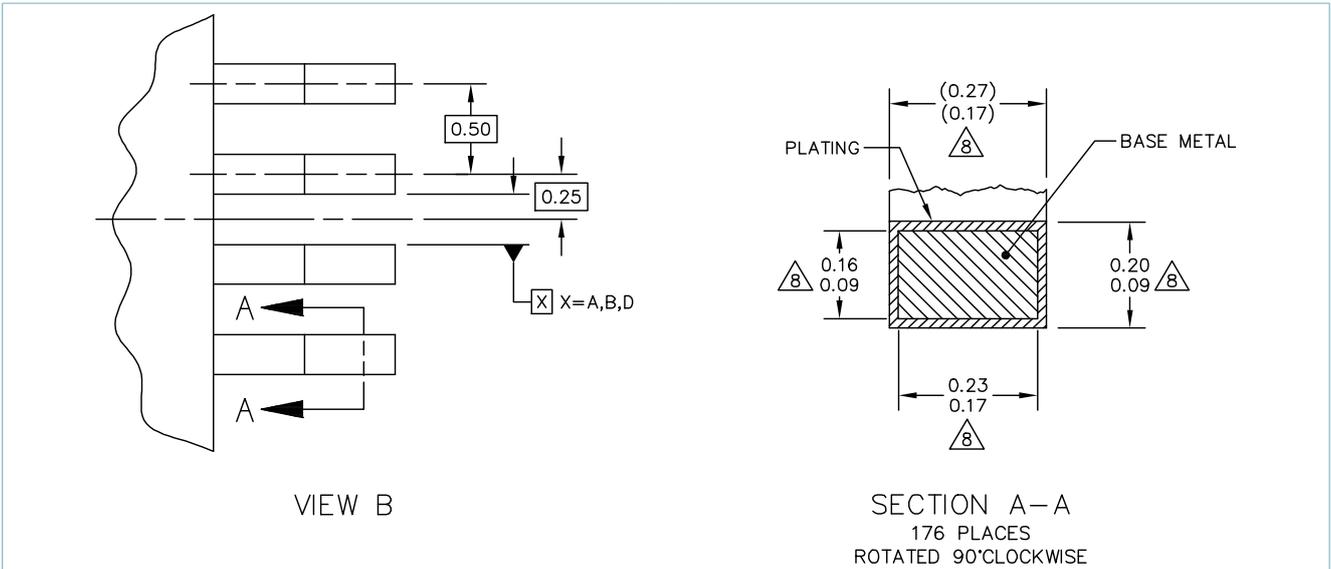


Fig. 2. Package outline dt1 LQFP176 (SOT506-2)

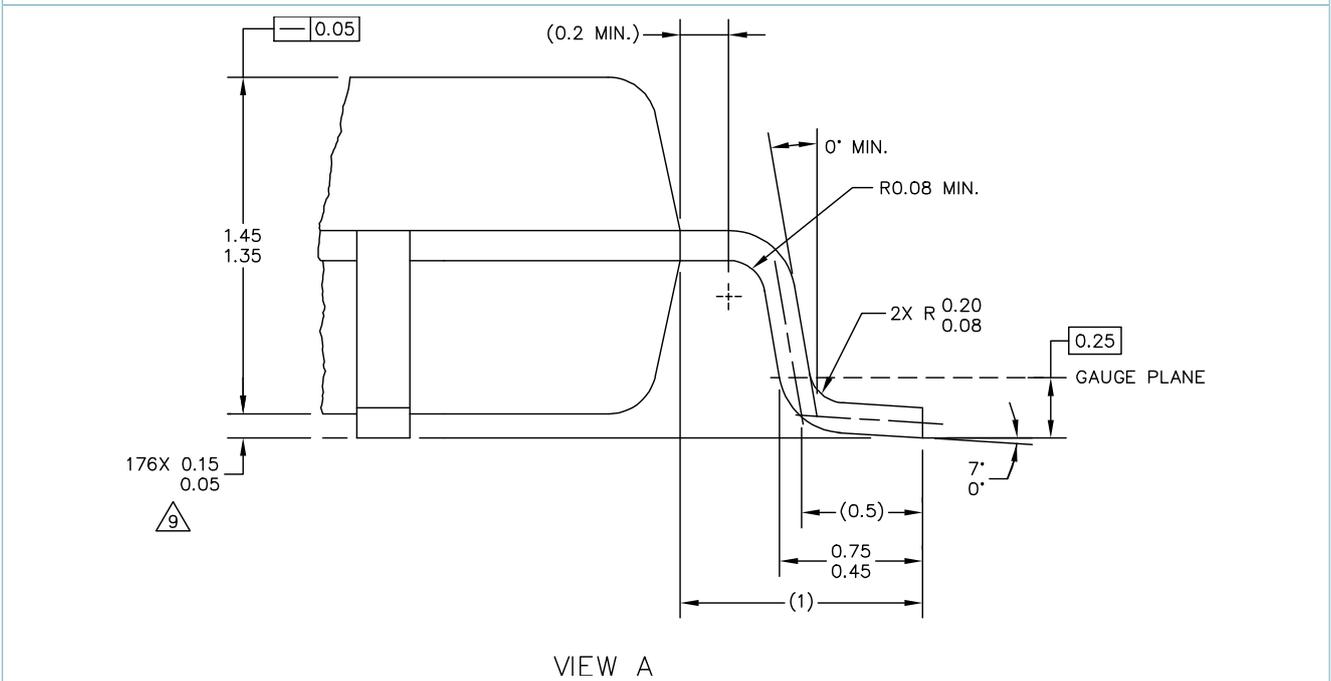


Fig. 3. Package outline dt2 LQFP176 (SOT506-2)

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NOTES:

1. DIMENSIONS AND TOLERANCING PER ASME Y14.5M-1994.
 2. DIMENSIONS IN MILLIMETERS.
 3. DATUM PLANE H IS LOCATED AT BOTTOM OF LEAD AND IS COINCIDENT WITH THE LEAD WHERE THE LEAD EXITS THE PLASTIC BODY AT THE BOTTOM OF THE PARTING LINE.
- ④ DATUMS A, B AND D TO BE DETERMINED AT DATUM PLANE H.
- ⑤ THIS DIMENSIONS TO BE DETERMINED AT SEATING PLANE, DATUM C.
- ⑥ THIS DIMENSIONS DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE PROTRUSION IS 0.25 PER SIDE. THIS DIMENSIONS INCLUDE MOLD MISMATCH AND ARE DETERMINED AT DATUM PLANE H.
- ⑦ THIS DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD WIDTH TO EXCEED 0.35. MINIMUM SPACE BETWEEN PROTRUSION AND ADJACENT LEAD 0.07.
- ⑧ THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.1 MM AND 0.25 MM FROM THE LEAD TIP.
- ⑨ DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.

Fig. 4. Package outline note LQFP176 (SOT506-2)

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3. Legal information

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