



SNAPHAT SOIC TAPE & REEL

SOIC for SNAPHAT NVRAM Products Tape and Reel Shipping Media

INTRODUCTION

Surface mounting packages can be supplied with Tape and Reel packing.

The reels are standard 330mm diameter and contain between 1000 and 2500 devices.

The packages supplied on Tape and Reel are listed in Table 1 that shows the Tape Width and Part Pitch used, and the Quantity per reel.

The tape used are either plastic antistatic or conductive with a black conductive cavity tape. The cover tape is transparent antistatic or conductive.

Devices are orientated in the cavities with the identifying pin (normally pin "1") on the same side as the sprocket holes in the tape.

The STMicroelectronics Tape & Reel specifications are compliant to the EIA 481-A standard specification.

Table 1. Packages on Tape and Reel

Package	Body Size	Description	Tape Width (W)	Part Pitch (P)	Q.ty per Reel
SOH28	346 mils	28 lead SOIC Package	24 mm	16 mm	936
SOH44	346 mils	44 lead SOIC Package	24 mm	16 mm	936

Figure 1. Reel Diagram

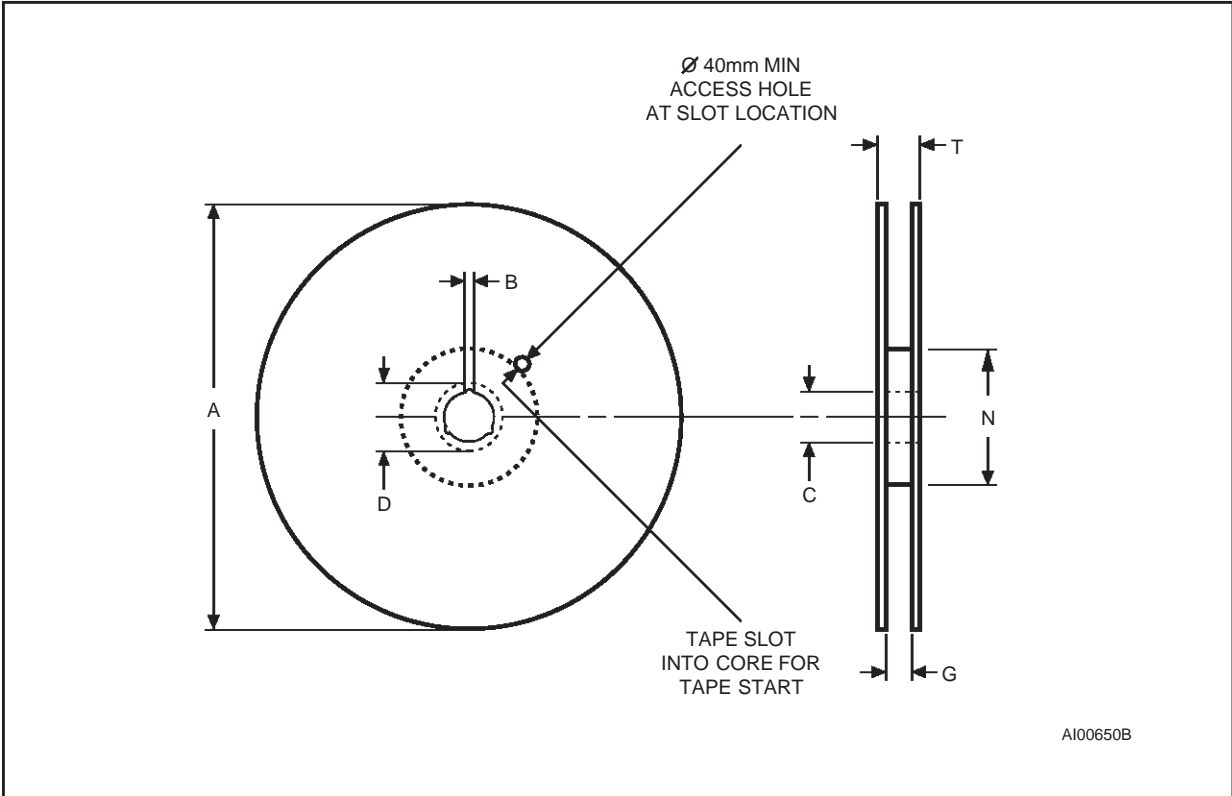


Table 2. Reel Dimensions

Tape Size	A Max	B Min	C	D Min	G	N Min	T Max	Unit
24 mm	330	1.5	13 ± 0.2	20.2	24.4 +2 / -0	60	30.4	mm

Figure 2. Leader and Trailer

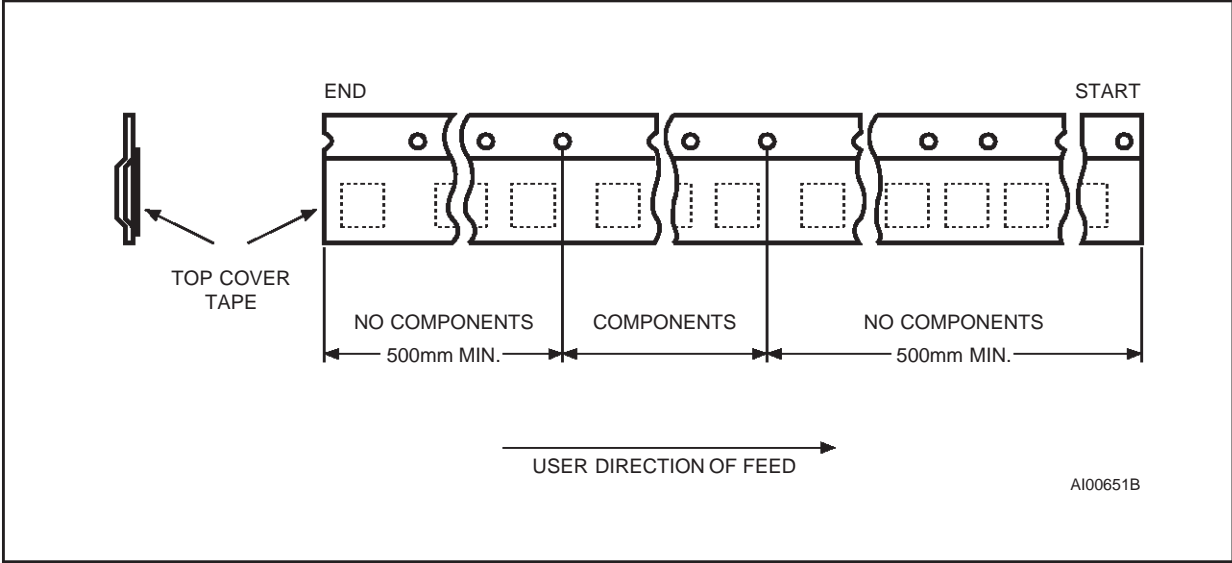
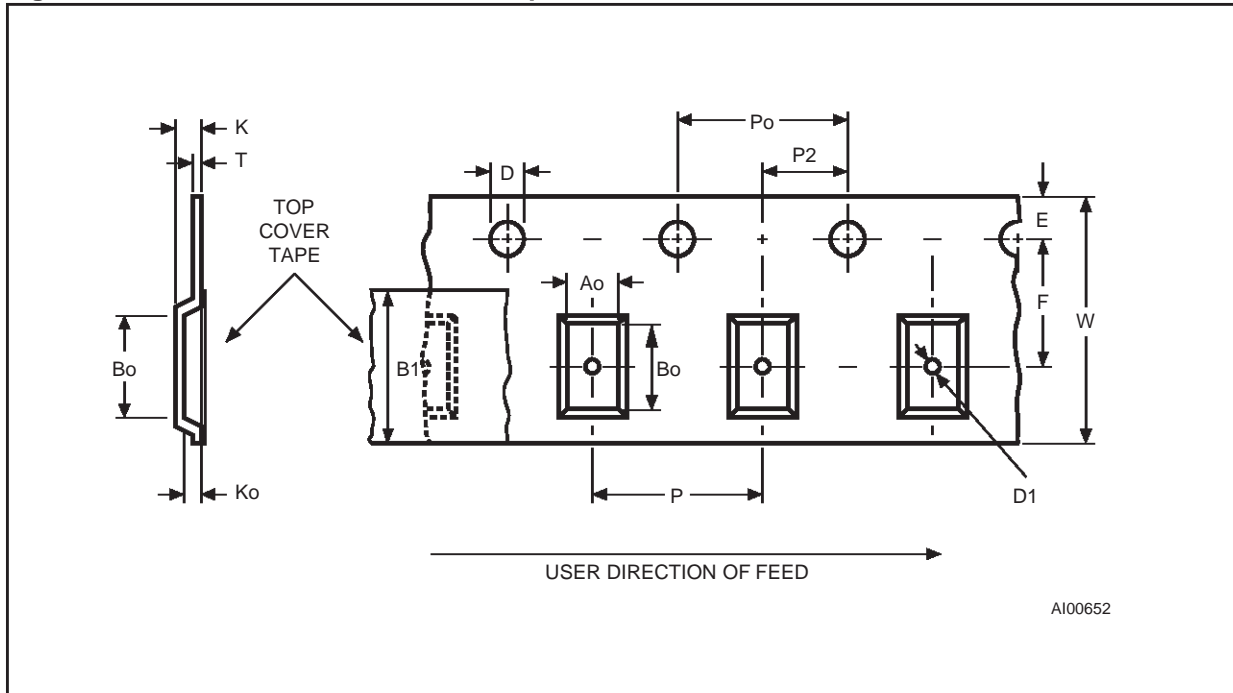


Figure 3. Embossed Carrier for 24 mm Tape


Drawing is not to scale.

Table 3. Carrier Tape Constant Dimensions

Tape Size	Ao, Bo, Ko	D	E	Po	T Max	Unit
24 mm	see Note	1.5 +0.1 / -0	1.75 ± 0.1	4 ± 0.1	0.4	mm

Note: Ao, Bo, Ko, are determined by components sizes. The clearance between the component and the cavity must be within:
 – 24 mm tape: 0.05 mm min. to 1.00 mm max.

Table 4. Carrier Tape Variable Dimensions

Tape Size	B1 Max	D1 Min	F	K Max	P	P2	W	Unit
24 mm	20.1	1.5	11.5 ± 0.1	6.5	see Note	2 ± 0.1	24 ± 0.3	mm

Note: P is determined by components sizes.

Tape & Reel for SNAPHAT SOIC Packages

Table 5. Carrier Tape Mechanical Data for SOH28/44 - 346 mils body width

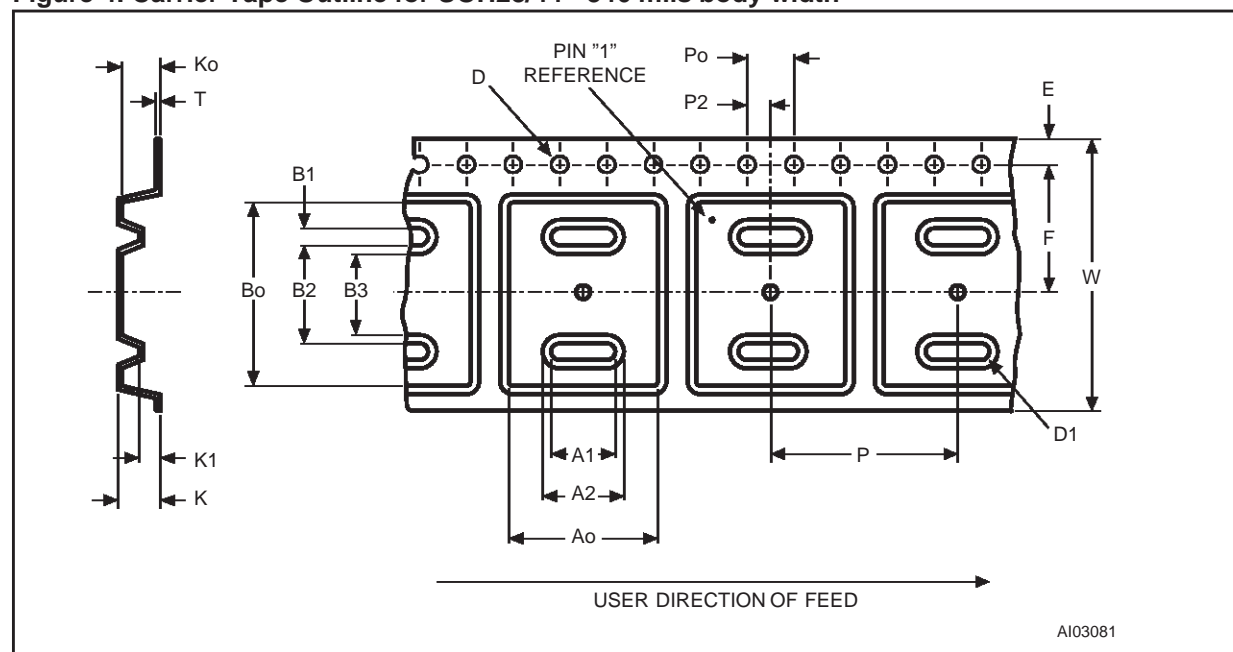
Symbol	millimeters			inches		
	Typ	Min	Max	Typ	Min	Max
Ao ⁽³⁾	12.90	–	–	0.508	–	–
A1 ⁽³⁾	6.40	–	–	0.252	–	–
A2 ⁽³⁾	7.20	–	–	0.283	–	–
Bo ⁽³⁾	18.70	–	–	0.736	–	–
B1 ⁽³⁾	2.50	–	–	0.098	–	–
B2 ⁽³⁾	9.00	–	–	0.354	–	–
B3 ⁽³⁾	8.20	–	–	0.323	–	–
Ø D	1.50	1.50	1.60	0.059	0.059	0.063
Ø D1	1.00	–	–	0.039	–	–
E ⁽³⁾	1.75	–	–	0.069	–	–
F ^(2,3)	11.50	–	–	0.453	–	–
K	3.50	–	–	0.138	–	–
Ko ⁽³⁾	3.20	–	–	0.126	–	–
K1	2.80	–	–	0.110	–	–
P ⁽³⁾	16.00	–	–	0.630	–	–
Po ⁽¹⁾	4.00	–	–	0.157	–	–
P2 ⁽²⁾	2.00	–	–	0.079	–	–
T	0.30	0.25	0.35	0.012	0.010	0.014
W	24.00	23.70	24.30	0.945	0.933	0.957

Note: 1. 10 Sprocket hole pitch cumulative tolerance ± 0.2 mm.

2. Pocket position relative to sprocket hole measured as true position of pocket, not pocket hole.

3. General Tolerance = ± 0.1 mm.

Figure 4. Carrier Tape Outline for SOH28/44 - 346 mils body width



Drawing is not to scale.

Table 6. Revision History

Date	Revision Details
October 1999	First Issue - PRELIMINARY DATA
April 2000	Title changed Quantity per reel changed (Table 1)

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