

JEDEC SOLID
STATE PRODUCT
OUTLINE

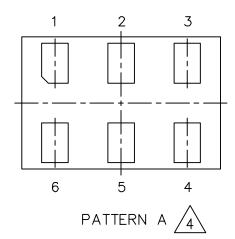
THIN AND EXTREMELY THIN, FINE
PITCH DUAL SMALL OUTLINE,
NON-LEADED PACKAGE FAMILY

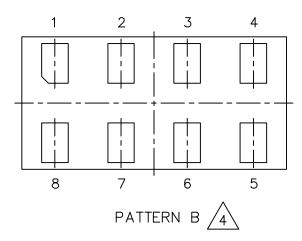
SHEET

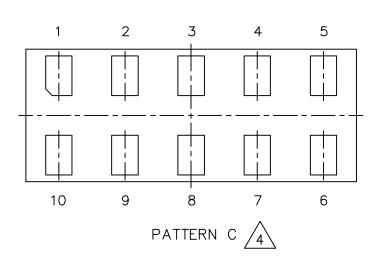
July
07

MO-252
2 OF 6

FIGURE 2 TERMINAL PATTERN BOTTOM VIEWS







JEDEC SOLID STATE PRODUCT OUTLINE TITLE PLASTIC VERY VERY THIN, ULTRA
THIN AND EXTREMELY THIN, FINE
PITCH DUAL SMALL OUTLINE,
NON-LEADED PACKAGE FAMILY

ISSUE C DATE
July
07

MO - 252

3 OF 6

SHEET

TABLE 1

				СОММ	ON DIME	VSIONS				
	W = VE	RY VER	Y THIN	U = 1	ULTRA 1	HIN	X = EX	KTREMEL	Y THIN	NOTES
SYMBOL	MIN	NOM	<sub>I</sub> MAX	MIN	NOM	MAX	MIN	NOM	MAX	
Α	>0.65		0.80	>0.50		0.65			0.50	
A1	0.00		0.05	0.00		0.05	0.00		0.05	
b	0.15	0.20	0.25	0.15	0.20	0.25	0.15	0.20	0.25	6
L	0.25	0.30	0.45	0.25	0.30	0.45	0.25	0.30	0.45	
L1	0.00		0.10	0.00		0.10	0.00		0.10	9
L3	0.25			0.25			0.25			
k	0.20			0.20			0.20			
NOTES					1, 2					
REF		·	11-69	3, 11-7	70				·	
ISSUE					С					

## TABLE 2

	NCES OF FORM ND POSITION
SYMBOL	VALUE
aaa	0.10
bbb	0.10
ccc	0.05
ddd	0.05
eee	0.05
NOTES	1,2
REF	11-693
ISSUE	В

## TABLE 3

	VARIA	TIONS	е	= 0.50	
VAR	WAAD				
	UAAD	UBBD			
SYMBOL			XBAD	XCAD	NOTE
D BSC	1.50	2.00	2.00	2.50	
E BSC	1.00	2.00	1.00	1.00	
N	6	8	8	10	8
ND	3	4	4	5	7
NE	0	0	0	0	7
Notes		1, 2	•		
Ref		11–693	, 11-77	70	
Issue		С			
Issue		<u> </u>			

JEDEC SOLID	TITLE PLASTIC VERY VERY THIN, ULTRA	ISSUE	DATE		SHEET
STATE PRODUCT OUTLINE	THIN AND EXTREMELY THIN, FINE PITCH DUAL SMALL OUTLINE, NON—LEADED PACKAGE FAMILY	С	July 07	MO-252	4 OF 6

## NOTES:

- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- 2. DIMENSIONS ARE IN MILLIMETERS.
- 3. OUTLINE APPLICABLE TO SUBSTRATE—BASED PACKAGE CONSTRUCTION ONLY, (NOT APPLICABLE TO LEADFRAME BASED PACKAGE CONSTRUCTION)
- 4.

TERMINAL PATTERNS A, B AND C ARE SHOWN FOR ILLUSTRATION ONLY.



A VISUAL INDEX FEATURE MUST BE LOCATED WITHIN THE HATCHED AREA.



DIMENSION 6 APPLIES TO METALIZED TERMINAL AND IS MEASURED BETWEEN 0.15mm AND 0.25mm FROM TERMINAL TIP.

- 7. ND AND NE REFER TO THE NUMBER OF TERMINALS ON EACH D AND E SIDE. FOR THIS OUTLINE, NE SHALL ALWAYS BE "O" ZERO.
- 8. 'N' IS THE TOTAL NUMBER OF TERMINALS.



DEPENDING ON THE METHOD OF TERMINATION AT THE EDGE OF THE PACKAGE, PULL BACK (L1) MAY BE PRESENT. L MINUS L1 TO BE EQUAL TO OR GREATER THAN 0.25mm.



OPTIONAL PIN 1 ID PROTRUSION IS OUTSIDE OF THE PIN DIMENSIONS b, L AND L3 BY A MINIMUM OF 0.05 MM.



THIS OUTLINE CONFORMS TO JEP95, SECTION 4.20, AND SECTION 3, SPP-017.

JEDEC SOLID
STATE PRODUCT
OUTLINE

5 OF 6

SHEET

## **Change Record**

If the change involves any words added or deleted (excluding deletion of accidentally repeated words), the change is to be included below. Punctuation changes may or may not be included.

Initial Issue: A	Date: JUNE	<u> 2004</u>	Item: 11-677		
		Revision History:			
Issue: B	Date: OCT	. 2004	Item: 11-693		
	!		-1		
Issue: C	Date: July 0	7	Item: 11-770		
Loc	ation	Change from:	Change to:		
Sht 4, table 1			Added symbols b		
Sht 4, table 1		SYMBOL A MIN 0.65 & 0.50	>0.65 & >0.50		
Sht 4, table 3			Deleted symbols	b, L & L3	
Sht 4, table 3			Added variation U	IBBD	
Issue:	Date:		Item:		
Loca	ation	Change from:	Change	e to:	
		1	1		
Issue:	Date:		Item:		
Loca	ation	Change from:	Change	e to:	
TITLE		RY VERY THIN, ULTRA	ISSUE DATE		
	THIN AND F	EXTREMELY THIN, ULIRA EXTREMELY THIN, FINE	le de c	1,40	
JCT	DITCH DI	AL SMALL OUTLINE,		MO-2	

NON-LEADED PACKAGE FAMILY

OUTLINE

07