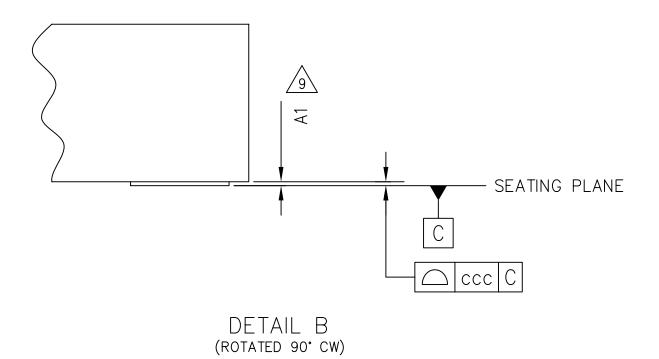


DETAIL A



JEDEC	TITLE: PLASTIC ULTRA AND SUPER THIN	ISSUE:	DATE:		SHEET:
SOLID STATE	SMALL OUTLINE, NON-LEADED	l <sub>R</sub>	MAR07	MO-236	2 of 9
PRODUCT OUTLINE	PACKAGE FAMILY		1117111107		

FIGURE 1: TERMINAL PATTERNS AAAΒ ВА 3 3 3 4 2 2 2 AC, EA ΑD 2 2 JEDEC SOLID STATE PRODUCT OUTLINE TITLE: PLASTIC ULTRA AND SUPER THIN ISSUE: DATE: SHEET: SMALL OUTLINE, NON-LEADED MO - 2363 of 9 В MAR07 PACKAGE FAMILY

FIGURE 2: TERMINAL PATTERNS СА DA 3 3 4 4 2 TITLE: PLASTIC ULTRA AND SUPER THIN JEDEC SOLID STATE PRODUCT OUTLINE ISSUE: DATE: SHEET: SMALL OUTLINE, NON-LEADED MO - 2364 of 9 В MAR07

PACKAGE FAMILY

	TABLE 1: VARIATIONS									
VAR		AA			AB		AC			NOTE
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	MINIMUM	NOMINAL	MAXIMUM	MINIMUM	NOMINAL	MAXIMUM	
Α	0.45	_	0.60	0.45	_	0.60	0.45	_	0.60	5
A1	0.00	_	0.05	0.00	_	0.05	0.00	_	0.05	9
A2	0.40	_	0.60	0.40	_	0.60	0.40	_	0.60	
b1	0.10	0.15	0.20	0.10	0.15	0.20	0.45	0.50	0.55	8
b2	0.45	0.50	0.55	0.45	0.50	0.55	0.45	0.50	0.55	8
D		0.60	BSC	3SC (		0.60 BSC		0.60 BSC		
Е		1.00 E	3SC	1.00 BSC		1.00 BSC				
е		0.35	BSC	0.35 BSC		_			3	
e1		0.65	BSC		0.60	BSC	0.65 BSC			
L1	0.20	0.25	0.30	0.15	0.20	0.25	0.20	0.25	0.30	8
L2	0.20	0.25	0.30	0.35	0.40	0.45	0.20	0.25	0.30	8
N		3		3		2				
TERMINAL		4			4			4		
PATTERN FIG.	1		1			1				
Notes	1, 2		1, 2			1, 2				
Ref		10-44	12	10-442		10-442				
Issue		В			В			В		

	TABLE 2: VARIATIONS									
VAR		AD			ВА					NOTE
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	MINIMUM	NOMINAL	MAXIMUM	MINIMUM	NOMINAL	MAXIMUM	
Α	0.45	_	0.60	0.45	-	0.60				5
A1	0.00	_	0.05	0.00	_	0.05				9
A2	0.40	_	0.60	0.40	_	0.60				
b1	0.45	0.50	0.55	0.10	0.15	0.20				8
b2	0.45	0.50	0.55	0.10	0.15	0.20				8
D		0.60	BSC		0.60 BSC					
E		1.00 E	3SC	1.00 BSC						
е		_		0.35 BSC					3	
e1		0.60	BSC		0.65	BSC				
L1	0.15	0.20	0.25	0.20	0.25	0.30				8
L2	0.35	0.40	0.45	0.20	0.25	0.30				8
N		2			4			•		
TERMINAL		4			4					
PATTERN FIG.		1			1					
Notes		1, 2		1, 2						
Ref		10-44	12		10-44	12				
Issue		В			В					

JEDEC	TITLE: PLASTIC ULTRA AND SUPER THIN	ISSUE:	DATE:		SHEET:
SOLID STATE	SMALL OUTLINE, NON-LEADED	l <sub>R</sub>	MAR07	MO-236	5 of 9
PRODUCT OUTLINE	PACKAGE FAMILY		1417111107		

	TABLE 3: VARIATIONS									
VAR		СА			DA			EA		NOTE
SYMBOL	MINIMUM	NOMINAL	MAXIMUM	MINIMUM	NOMINAL	махімим	MINIMUM	NOMINAL	MAXIMUM	
Α	0.55	_	0.65	0.45	_	0.60	>0.30	_	0.40	5
A1	0.00	_	0.05	0.00	_	0.05	0.00	_	0.05	9
A2	0.50	_	0.65	0.40	_	0.60	_	_	_	
b1	0.15	0.20	0.25	0.20	0.25	0.30	0.45	0.50	0.55	8
b2	0.10	0.15	0.20	0.20	0.25	0.30	0.45	0.50	0.55	8
D		0.80 BSC		0.80 BSC		0.60 BSC				
E		1.00 E	3SC	1.20 BSC		1.00 BSC				
е		0.50	BSC	0.45 BSC		_			3	
e1		0.60	BSC	0.75 BSC		0.65 BSC		BSC		
L1	0.25	0.30	0.35	0.30	0.35	0.40	0.20	0.25	0.30	8
L2	0.25	0.30	0.35	0.30	0.35	0.40	0.20	0.25	0.30	8
N		4		4		2				
TERMINAL		0		_		_				
PATTERN FIG.	2		2			1				
Notes	1, 2		1, 2			1, 2				
Ref		10-44	12	10-442		10-442				
Issue		В			В			В		

	TABLE 4:						
TOLEF	TOLERANCES OF FORM AND POSITION						
SYMBOL		NOTE					
aaa	0.05						
ccc	0.03						
ddd	0.10						
Notes	1, 2						
Ref	10-422						
Issue	А						

JEDEC	TITLE: PLASTIC ULTRA AND SUPER THIN	ISSUE:	DATE:		SHEET:
SOLID STATE	SMALL OUTLINE, NON-LEADED	В	MAR07	MO-236	6 of 9
PRODUCT OUTLINE	PACKAGE FAMILY		1117111107		

## NOTES:

- 1 DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.
- 2 ALL DIMENSIONS ARE IN MILLIMETERS.
- 3 "e" REPRESENTS THE TERMINAL GRID PITCH.



1.0 X 0.6 PACKAGE VARIATION AA IS SHOWN FOR ILLUSTRATION ONLY.



THIS DIMENSION INCLUDES STAND—OFF HEIGHT "A1", AND PACKAGE BODY THICKNESS, BUT DOES NOT INCLUDE ATTACHED FEATURES, e.g., EXTERNAL HEATSINK OR CHIP CAPACITORS. AN INTEGRAL HEATSLUG IS NOT CONSIDERED AS ATTACHED FEATURE.



A VISUAL INDEX FEATURE MUST BE LOCATED WITHIN THE HATCHED AREA. THE HATCHED AREA USED IN THIS REGISTRATION IS DEFINED BY A LEGACY METHOD WHICH PERMITS THIS AREA TO TRAVERSE THE ENTIRE WIDTH OF THE COMPONENT AND THEREFORE DOES NOT COMPLY WITH DESIGN GUIDES 4.8, 4.16, & 4.20 WHICH PLACE DIFFERENT RESTRICTIONS ON THE HATCHED AREA.

- 7 THESE PACKAGES ARE USED PRINCIPALLY FOR DISCRETE DEVICES.
- 8

DIMENSIONS b1, b2, L1, L2 APPLY TO PLATED TERMINALS.



DIMENSION A1 IS PRIMARILY TERMINAL PLATING, BUT DOES NOT INCLUDE SMALL METAL PROTRUSION.



A COMPANY HAS ISSUED PATENTS THAT MAY APPLY TO THIS REGISTRATION. IF THE CURRENT ISSUED PATENTS OR LATER PATENTS DO APPLY, THIS COMPANY INTENDS TO COMPLY WITH THE JEDEC PATENT POLICY. REFERENCE PATENTS ARE AS FOLLOWS:

INFINEON: PATENT PENDING

JEDEC							
SOLID STATE							
PRODUCT OUTLINE							

## 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: NOV.	2002	JC 11 Item Number :10-422

## Change Record History

Issue: B	Date: MAR2007	Item Number 10-442
Location	Changed from:	Changed to:
ALL PAGES: TITLES	PLASTIC ULTRA THIN SMALL OUTLINE, NON-LEADED PACKAGE FAMILY	PLASTIC ULTRA AND SUPER THIN SMALL OUTLINE, NON-LEADED PACKAGE FAMILY
Page 1; PACKAGE DESIGNATOR:	P-USO-N	(U,X2)F-PSON
Page 6; VARIATIONS TABLE		ADDED VARIATION EA: "EA" SAME AS "AC" BUT "A" MAX = 0.4mm
Pages 5 & 6; VARIATIONS TABLES		ADDED ROWS TO TABLES WITH LINKS TO TERMINAL PATTERNS FOR EACH VARIATION
Pages 3; TERMINAL PATTERN "AC"	AC	AC, EA
Page 7 Notes & Page 1		> ADDED NOTE: 10 JEDEC PATENT "BROILER PLATE" > ADDED NOTE 10 TO "PATENT PENDING" ON PAGE 1. > ADDED TEXT TO NOTE 6 TO ALERT USER THAT THE "INDEX FEATURE" DEFINITION IN THIS DOCUMENT IS A LEGACY AND DOES NOT AGREE WITH DESIGN GUIDES: 4.8, 4.16 OR 4.20
Pages 1 & 2		REORIENTED TOP VIEW ON PAGE1: ROTATED 180° TO PLACE INDEX FEATURE AT BOTTOM. ROTATED BOTTOM & SIDE VIEWS TO AGREE. ROTATED DETAILS "A" & "B" TO AGREE.
Page 1		REMOVED "BASIC BOX" FROM DIMENSIONS: A, & A2. UPDATED SYMBOLS IN FEATURE CONTROL FRAMES: REPLACED "d" WITH PROFILE SYMBOL
Page 2		> REMOVED "BASIC BOX" SYMBOL FROM DIMENSIONS: A1, b1 & L1 SINCE THESE ARE NOT BASIC DIMENSIONS. > UPDATED SYMBOLS IN FEATURE CONTROL FRAMES RELATED TO DIMENSIONS b1 & L1: a)REPLACED "j" WITH POSITION "TARGET" SYMBOL. b)ADDED "MAX MATERIAL" CONDITION c)CHANGED DATUM REFERENCE FROM: A B TO A B C > REPLACED "d" SYMBOL IN THE FEATURE CONTROL FRAME ASSOCIATED WITH DIM A1 WITH PROFILE SYMBOL.

JEDEC	TITLE: PLASTIC ULTRA AND SUPER THIN	ISSUE:	DATE:		SHEET:
SOLID STATE	SMALL OUTLINE, NON-LEADED	l <sub>R</sub>	MAR07	MO-236	8 of 9
PRODUCT OUTLINE	PACKAGE FAMILY		Wirtitor	200	

## Change Record

Issue: B	Date: MAR 2007	Item Number 10-442
Location	Changed from:	Changed to:
Page 5, Variation Table 1	Variation AB: "e1" = 0.65 BSC  Variation AC: "e1" = 0.35 BSC	Variation AB: "e1" = 0.60 BSC  Variation AC: "e1" = 0.65 BSC
Page 5, Variation Table 2	Variation AD: "e1" = 0.35 BSC	Variation AD: "e1" = 0.60 BSC

JEDEC
SOLID STATE
PRODUCT OUTLINE

TITLE: PLASTIC ULTRA AND SUPER THIN ISSUE: DATE:
SMALL OUTLINE, NON-LEADED
PACKAGE FAMILY

SHEET:
B MAR07 MO-236 9 of 9