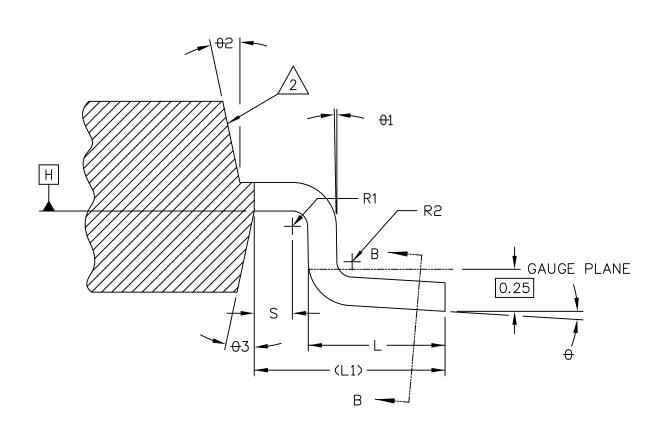
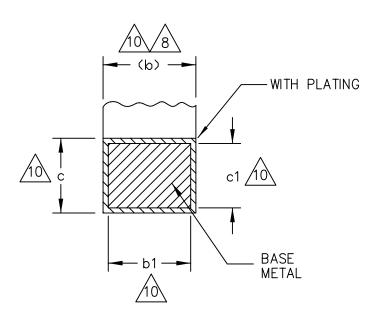


FIGURE 2

IEDEO	TITLE	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	Α	APR 2008	MO-291	2 OF 8

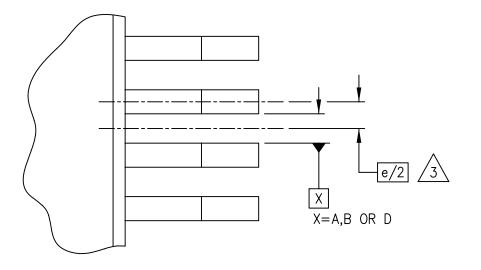


## FIG 3 SECTION A-A



## FIGURE 4 SECTION B-B

IEDEO	TITLE VERY TURN FINE BITCH	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	Α	APR 2008	MO-291	3 0F 8



EVEN LEAD SIDES
TOP VIEW
FIGURE 5

	TITLE	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	А	APR 2008	MO-291	4 0F 8

S <sub>Y</sub> M <sub>B</sub> D	COMMON DIMENSIONS			N O T E	
	MIN.	NOM.	MAX.	E	
0	0,	3.5°	7°		
<del>0</del> 1	0°	_	_		
<del>0</del> 2	11°	12°	13°		
<del>0</del> 3	11°	12°	13°		
Α	-	_	1.00		
A1	0.00	_	0.10		
A2	0.75	0.80	0.85		
А3	0.00	0.01	0.05		
С	0.09	_	0.20	10	
C1	0.09	_	0.16	10	
L	0.45	0.60	0.75		
L1		1.00 REF			
K	0.20	_	1		
R1	0.08	_	-		
R2	0.08	_	0.20		
S	0.20	_	1		
TOLE	RANCES O	F FORM AN	D POSITION	1	
aaa		0.20			
bbb		0.20			
ccc	0.08				
ddd	0.08				
eee	0.10				
fff		0.05			
999		0.08			
hhh		0.10			
NOTE	1,7				
REF		11-788	3		
ISSUE		Α			

TABLE 1

IEDEO	TITLE NEDV TUNI SINE BITOU	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	А	APR 2008	MO-291	5 OF 8

SUMMARY TABLE				
BODY SIZE	PITCH	LEAD COUNT	0.80 mm THK BODY HVF—PQFP	
10 X 10	0.50	64	AA	

TABLE 2

	VARIATIONS						
S <sub>Y</sub> <sub>M</sub> <sub>B</sub> <sub>□</sub> L	$\triangle \triangle$			$\triangle \triangle$		$\triangle \triangle$	
L	MIN.	N□M.	MAX.	N			
b	0.17	0.22	0.27	8,10			
b1	0.17	0.20	0.23	10			
b2	0.17	0,20	0,23				
D	1	2.00 BS	C	4			
D1	1	0.00 BS	С	5,2			
D2	SEE EX	POSED PAD VA	RIATION	12			
е	0.50 BSC						
е Е Е1	12.00 BSC			4			
E1	1	0.00 BS	С	5,2			
E2	SEE EX	POSED PAD VA	RIATION	12			
N		64					
М		36					
еΤ	0.50 BSC						
MDa	9						
MEa	9						
La	0.40 0.50 0.60						
NOTE	1,7						
REF	11-788						
ISSUE		Α					

TABLE 3

IFDFO	TITLE NEDV TUNK FINE BITOU	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	А	APR 2008	MO-291	6 OF 8

NO	OTES:						
	DIMENSIONING	 	. —				
$\Delta$	THE TOD DAG	E DANY SIZE N	4 A 🗸 - F	DE CM/	VII ED	TLLANI	Τı

THE TOP PACKAGE BODY SIZE MAY BE SMALLER THAN THE BOTTOM PACKAGE SIZE BY AS MUCH AS 0.15 mm.

ackslash datums a,b and d to be determined at datum plane H.

TO BE DETERMINED AT SEATING PLANE C.

DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSIONS. ALLOWABLE PROTRUSION IS 0.25 mm PER SIDE. D1 AND E1 ARE MAXIMUM PLASTIC BODY SIZE DIMENSIONS INCLUDING MOLD MISMATCH. D1 AND E1 SHALL BE DETERMINED AT DATUM PLANE H.

DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.

7. ALL DIMENSIONS ARE IN MILLIMETERS.

DIMENSION 6 DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD WIDTH TO EXCEED THE MAXIMUM 6 DIMENSION BY MORE THAN 0.08 mm. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD IS 0.07 mm FOR 0.4 mm AND 0.5 mm PITCH PACKAGES.

EXACT SHAPE OF EACH CORNER IS OPTIONAL.

THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 mm AND 0.25 mm FROM THE LEAD TIP.

A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.

DIMENSION D2 AND E2 SHOW THE OPTIONAL EXPOSED HEAT FEATURE. THE SIZE OF THE EXPOSED HEAT SLUG IS VARIABLE, DEPENDING ON DEVICE FUNCTION (DIE SIZE). END USERS SHOULD VERIFY THE ACTUAL SIZE OF THE THERMAL PAD FOR SPECIFIC DEVICE APPLICATION.

13. THIS FEATURE'S LENGTH WILL BE DETERMINED AT MANUFACTURING

VARIOUS COMPANIES HAVE ISSUED PATENTS AND RELATED PATENT APPLICATIONS
THAT MAY APPLY TO THIS REGISTRATION. IF THE CURRENT ISSUE PATENTS OR
LATER PATENTS RESULTING FROM RELATED APPLICATIONS DO APPLY, THESE
COMPANIES INTEND TO COMPLY WITH THE JEDEC PATENT POLICY AND LICENSE
UNDER REASONABLE TERMS AND CONDITIONS THAT ARE DEMONSTRABLY FREE OF
ANY UNFAIR DISCRIMINATION. REFERENCED PATENTS AS FOLLOWS:

	US 6818973
	US 7211471
AMKOR TECHNOLOGY	

UNILATERAL COPLANARITY ZONE APPLIES TO THE EXPOSED HEAT SINK SLUG AS WELL AS THE TERMINALS.

IFDFO	TITLE NEDV TUNK FINE BITOLI	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	А	APR 2008	MO-291	7 0F 8

## **Change Record**

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

Initial Issue:	Date:		Item: ISSUE			
Α	APRIL	2008	11-788			
	Revision History:					
		•				
Issue:	Date:		Item:			
Locat	tion	Change from:	Change to:			
Issue:	Date:		Item:			
Locat	tion	Change from:	Change to:			

(FDF0	TITLE	ISSUE	DATE		PAGE
JEDEC SOLID STATE PRODUCT OUTLINES	VERY THIN FINE PITCH PLASTIC QUAD FLAT PACKAGE, 2.00 mm FOOTPRINT	А	APR 2008	MO-291	8 0F 8