



MAXIM

TITLE:
PACKAGE OUTLINE, 100L TQFP, 14x14x1.00mm WITH
EXPOSED PAD OPTION, INVERTED DIE PAD

APPROVAL SCOTT SCHROEDER 09/16/11	DOCUMENT CONTROL NO. 21-0148	REV B	1/2
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NOTES:

1. ALL DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.
2. DATUM PLANE [H] LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
3. DATUM [A-B] AND [D] TO BE DETERMINED AT CENTERLINE BETWEEN LEADS WHERE LEADS EXITS PLASTIC BODY AT DATUM PLANE [H].
4. TO BE DETERMINED AT SEATING PLANE [C].
5. DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS 0.254mm ON D1 AND E1 DIMENSIONS.
6. "N" IS THE TOTAL NUMBER OF TERMINALS.
7. THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE [H].
8. THE TOP OF PACKAGE IS SMALLER THAN THE BOTTOM OF PACKAGE BY 0.15mm.
9. DIMENSIONS b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
10. CONTROLLING DIMENSION: MILLIMETER
11. MAXIMUM ALLOWABLE DIE THICKNESS TO BE ASSEMBLED IN THIS PACKAGE FAMILY IS 0.50mm.
12. THIS OUTLINE IS NOT YET JEDEC REGISTERED.
13. A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.
14. EXPOSED DIE PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 0.05mm.
15. METAL AREA OF EXPOSED DIE PAD SHALL BE WITHIN 0.30mm OF THE NOMINAL DIE PAD SIZE.
16. COUNTRY OF ORIGIN MUST BE MARKED ON THE PACKAGE.
17. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND PbFREE (+) PKGCODES.

SYMBOL	COMMON DIMENSIONS			
	ALL DIMENSIONS ARE IN MILLIMETERS			NOTE
	MIN.	NOM.	MAX.	
A	$\cancel{\text{---}}$	$\cancel{\text{---}}$	1.20	
A1	0.05	$\cancel{\text{---}}$	0.15	13
A2	0.95	1.00	1.05	
D	16.00 BSC.			4
D1	14.00 BSC.			7,8
E	16.00 BSC.			4
E1	14.00 BSC.			7,8
L	0.45	0.60	0.75	
N	100			
e	0.50 BSC.			
b	0.17	0.22	0.27	9
b1	0.17	0.20	0.23	
ccc	$\cancel{\text{---}}$	$\cancel{\text{---}}$	0.08	
ddd	$\cancel{\text{---}}$	$\cancel{\text{---}}$	0.08	

EXPOSED PAD VARIATIONS						
PKG. CODE	D2			E2		
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.
C100E-8R	7.70	8.00	8.30	7.70	8.00	8.30



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