



**MAXIM**

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

|          |                                 |           |     |
|----------|---------------------------------|-----------|-----|
| APPROVAL | DOCUMENT CONTROL NO.<br>21-0116 | REV.<br>F | 1/2 |
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-DRAWING NOT TO SCALE-

NOTES:

1. ALL DIMENSIONING AND TOLERANCES CONFIRM TO ASME Y14.5-1994.
2. DATUM PLANE [H] LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
3. DATUMS [A-B] AND [D] TO BE DETERMINED AT CENTERLINE BETWEEN LEADS WHERE LEADS EXIT 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 0.254 MM PER SIDE.
6. "N" IS NUMBER OF TERMINALS.
7. THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE [H].
8. PACKAGE TOP DIMENSIONS ARE SMALLER THAN THE BOTTOM BY 0.15 MM.
9. DIMENSION 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 CAN NOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT.
10. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
11. THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-026.
12. A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.
13. EXPOSED PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 0.05 MM.
14. MARKING IS FOR PACKAGE ORIENTATION REFERENCE ONLY.
15. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC# 10-0131
16. ALL DIMENSIONS APPLY TO BOTH LEADED (-) AND P6fFREE (+) PKG. CODES.

| SYMBOL         | DIMENSIONS |           |      | NOTES |
|----------------|------------|-----------|------|-------|
|                | MIN.       | NOM.      | MAX. |       |
| A              | $\approx$  | $\approx$ | 1.20 |       |
| A <sub>1</sub> | 0.05       | $\approx$ | 0.15 | 12    |
| A <sub>2</sub> | 0.95       | 1.00      | 1.05 |       |
| D              | 16.00 BSC. |           |      | 4     |
| D <sub>1</sub> | 14.00 BSC. |           |      | 7,8   |
| E              | 16.00 BSC. |           |      | 4     |
| E <sub>1</sub> | 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     |
| b <sub>1</sub> | 0.17       | 0.20      | 0.23 |       |
| ccc            | $\approx$  | $\approx$ | 0.10 |       |
| ddd            | $\approx$  | $\approx$ | 0.08 |       |

| EXPOSED PAD VARIATIONS |      |      |      |      |      |      |
|------------------------|------|------|------|------|------|------|
| PKG. CODE              | D2   |      |      | E2   |      |      |
|                        | MIN. | NOM. | MAX. | MIN. | NOM. | MAX. |
| C100E-2                | 7.7  | 8.0  | 8.3  | 7.7  | 8.0  | 8.3  |
| C100E-3                | 6.2  | 6.5  | 6.8  | 6.2  | 6.5  | 6.8  |
| C100E-6                | 4.7  | 5.0  | 5.3  | 4.7  | 5.0  | 5.3  |
| C100E-11               | 3.3  | 3.6  | 3.9  | 5.5  | 5.8  | 5.9  |



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