

MECHANICAL CASE OUTLINE

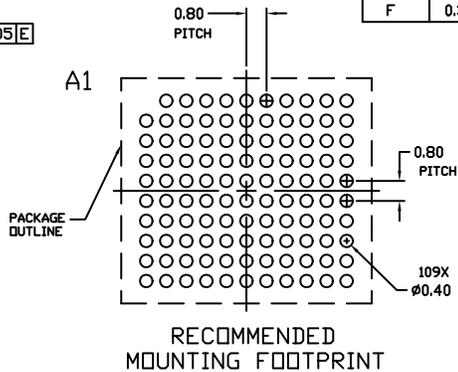
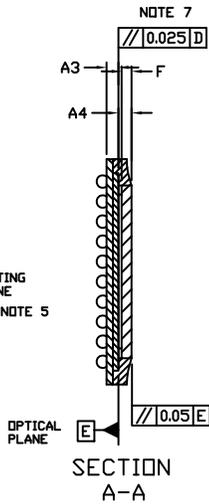
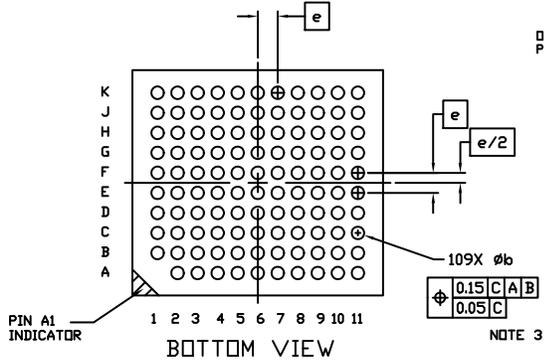
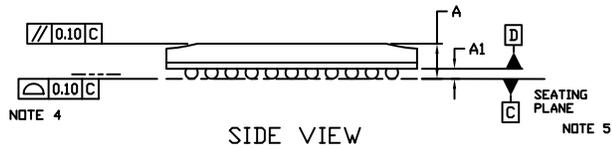
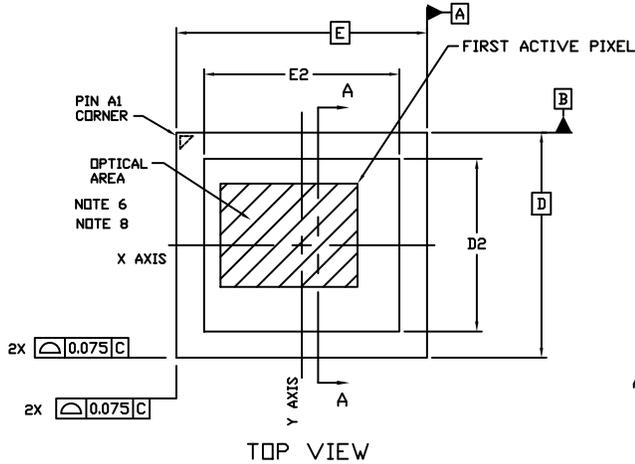
PACKAGE DIMENSIONS

ON Semiconductor®



IBGA109 10x9
CASE 503BC
ISSUE A

DATE 19 DEC 2017



NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS
3. DIMENSION b IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER PARALLEL TO DATUM C.
4. COPLANARITY APPLIES TO THE SPHERICAL CROWNS OF THE SOLDER BALLS.
5. DATUM C, THE SEATING PLANE, IS DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS.
6. MAXIMUM ROTATION OF OPTICAL AREA RELATIVE TO D AND E WILL BE 0.5°. OPTICAL AREA IS DEFINED BY THE ACTIVE PIXEL ARRAY. REFER TO THE DEVICE DATASHEET FOR TOTAL ARRAY AND FIRST ACTIVE PIXEL DEFINITIONS.
7. PARALLELISM APPLIES ONLY TO THE OPTICAL AREA.
8. OPTICAL CENTER OFFSET WITH RESPECT TO THE PACKAGE CENTER IS X=-507.00 MICRONS, Y=393.00 MICRONS ±75 MICRONS.

| DIM | MILLIMETERS | |
|-----|-------------|-------|
| | MIN. | MAX. |
| A | --- | 1.55 |
| A1 | 0.35 | 0.45 |
| A3 | 0.425 | 0.525 |
| A4 | 0.475 | 0.575 |
| b | 0.45 | 0.55 |
| D | 9.00 | BSC |
| D2 | 6.80 | 7.00 |
| E | 10.00 | BSC |
| E2 | 7.70 | 7.90 |
| e | 0.80 | BSC |
| F | 0.38 | 0.42 |

| | | |
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