

**NOTES:**

- ▲ ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1994.
- ▲ DATUM PLANE [SEE] LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
- ▲ DATUM [B2] AND [D1] TO BE DETERMINED AT CENTERLINE BETWEEN LEADS WHERE LEADS EXIT PLASTIC BODY AT DATUM PLANE [B2].
- ▲ TO BE DETERMINED AT SEATING PLANE [E2].
- ▲ DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION ALLOWABLE TOTAL PROTRUSION IS 0.294 MM ON D1 AND E1.
- ▲ DIMENSIONS TOTAL NUMBER OF TERMINALS.
- ▲ THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE [B2].
- ▲ PACKAGE TOP DIMENSIONS ARE SMALLER THAN BOTTOM DIMENSIONS AND TOP OF PACKAGE WILL NOT OVERHANG BOTTOM OF PACKAGE.

- ▲ DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALL EXPOSED DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL HEIGHT FROM SEATING PLANE. 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 0.38 MILLIMETERS.
- 12. THIS OUTLINE CONFORMS TO JEDEC PUBLICATION 95 REGISTRATION MS-026, VARIATION BGA & BGB.
- ▲ A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.
- ▲ DIMENSION D2 AND E2 REPRESENT THE SIZE OF THE EXPOSED PAD, AND IS DEPENDENT ON THE DIE SIZE.
- 15. EXPOSED PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 0.05. ▲ CORNER CHAMFER OF EXPOSED DIE PAD SHALL BE WITHIN 0.30 MM.

JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS				
SYMBOL	BGA			N T E
	MIN.	NDM.	MAX.	
A	~	~	1.60	13
A1	0.05	~	0.15	
Ae	1.35	1.40	1.45	4
D	26.00 BSC.			
D1	24.00 BSC.			7.8
E	26.00 BSC.			4
E1	24.00 BSC.			7.8
L	0.45	0.60	0.75	9
N	*160, 176			
e	0.50 BSC.			
b	0.17	0.22	0.27	
b1	0.17	0.20	0.23	
ccc	~	~	0.08	
ddd	~	~	0.08	

\* NOTE: THE 160 LEAD IS A COMPLIANT DEREGULATION OF THE 176 LEAD MS-026 VARIATION BGA.

JEDEC VARIATION ALL DIMENSIONS IN MILLIMETERS				
SYMBOL	BGB			N T E
	MIN.	NDM.	MAX.	
A	~	~	1.60	13
A1	0.05	~	0.15	
Ae	1.35	1.40	1.45	4
D	26.00 BSC.			
D1	24.00 BSC.			7.8
E	26.00 BSC.			4
E1	24.00 BSC.			7.8
L	0.45	0.60	0.75	9
N	216			
e	0.40 BSC.			
b	0.13	0.18	0.23	
b1	0.13	0.16	0.19	
ccc	~	~	0.08	
ddd	~	~	0.07	

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REVISION IS AN ACTUAL SCALE FROM THE SPECIFICATION

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PACKAGE OUTLINE: MATRIX LQFP  
 24 X 24 mm BODY, 1.00/0.10 mm FORM,  
 1.40 mm THICK (OPTIONAL ePAD)