

MECHANICAL CASE OUTLINE

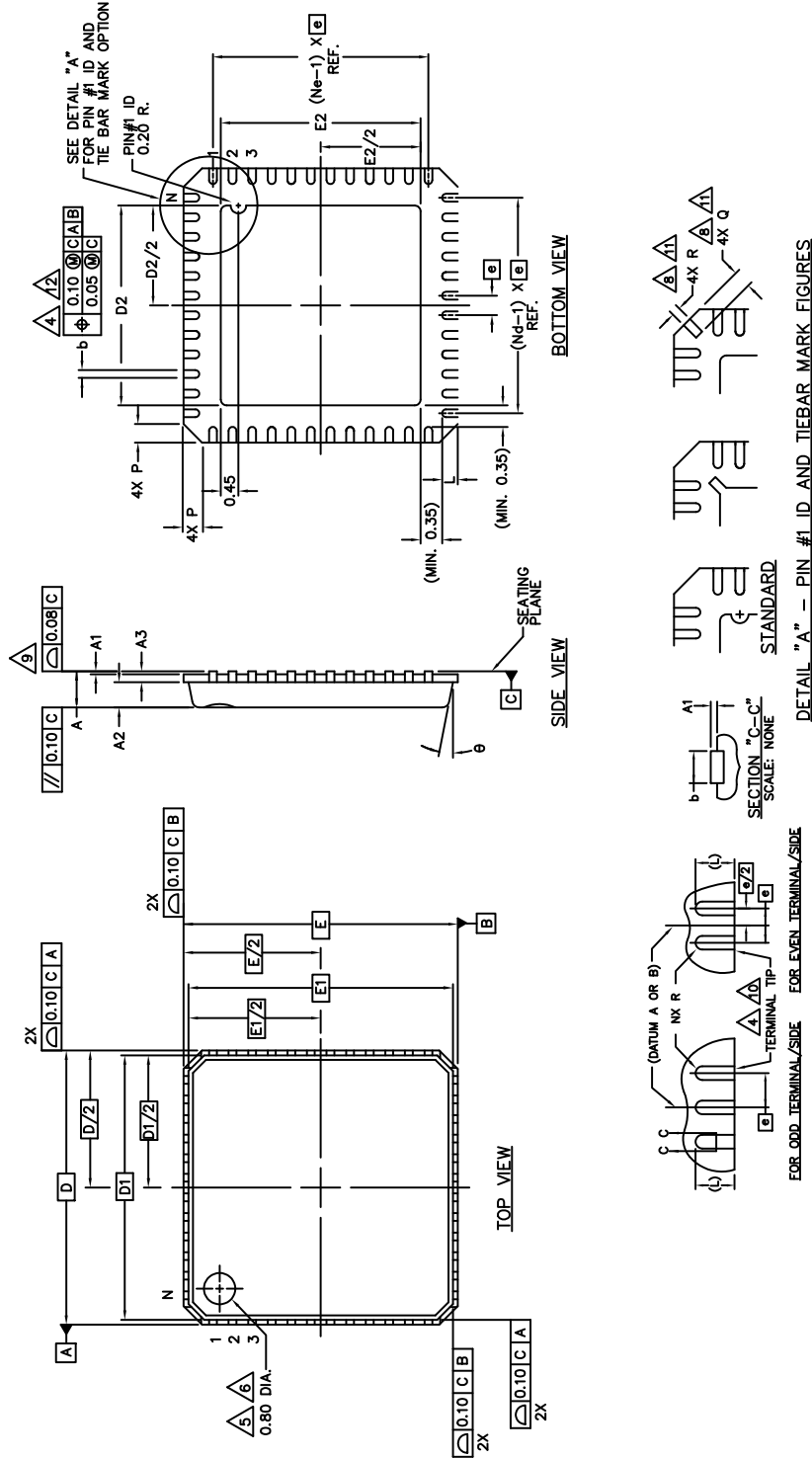
PACKAGE DIMENSIONS

ON Semiconductor®



NQFP 44, 7x7 CASE 560BK-01 ISSUE O

DATE 19 SEP 2008



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SYMBOL	PITCH VARIATION A		PITCH VARIATION B		PITCH VARIATION C		PITCH VARIATION C	
	MIN.	NOM. MAX.	MIN.	NOM. MAX.	MIN.	NOM. MAX.	MIN.	NOM. MAX.
N	0.80 BSC		0.65 BSC		0.50 BSC		0.50 BSC	
Nd	7		8		44		44	
Ne	3		3		3		3	
L	0.50	0.60	0.50	0.60	0.50	0.60	0.50	0.60
b	0.28	0.33	0.23	0.28	0.18	0.23	0.18	0.23
D2	SEE EXPOSED PAD VARIATION: *							
E2	SEE EXPOSED PAD VARIATION: *							

* NOT DESIGNED YET
 ** DESIGNED BUT NOT TOOLED UP

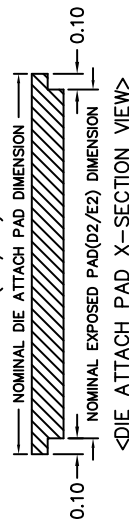
SYMBOL	PITCH VARIATION D		PITCH VARIATION E	
	MIN.	NOM. MAX.	MIN.	NOM. MAX.
N	0.50 BSC		0.40 BSC	
Nd	48		56	
Ne	12		14	
L	0.30	0.40	0.30	0.40
b	0.18	0.23	0.15	0.20
D2	SEE EXPOSED PAD VARIATION: C,F,G,H			
E2	SEE EXPOSED PAD VARIATION: F			

<STANDARD>

SYMBOL	COMMON DIMENSIONS	
	MIN.	NOM. MAX.
A	0.80	0.85
A1	0.00	0.01
A2	0.60	0.65
A3	0.20 REF.	0.70
D	7.00 BSC	
D1	6.75 BSC	
E	7.00 BSC	
E1	6.75 BSC	
θ	0	12°
P	0.24	0.42
Q	0.30	0.40
R	0.13	0.17

SYMBOLS	D2		E2		NOTE
	MIN	MAX	MIN	MAX	
A	3.20	3.30	3.20	3.30	
B	3.70	3.80	3.70	3.80	
C	4.00	4.10	4.00	4.20	
D	4.60	4.70	4.60	4.70	
E	4.80	4.90	4.80	4.90	
F	5.00	5.10	5.00	5.20	
G	5.20	5.30	5.20	5.30	
H	5.40	5.50	5.40	5.60	

GENERAL ; NOMINAL EXPOSED PAD(D2/E2) DIMENSION = NOMINAL DIE ATTACH PAD DIMENSION-0.20



NOTE:

ABOVE GENERAL CORRELATION BETWEEN NOMINAL EXPOSED PAD DIMENSION AND NOMINAL DIE ATTACH PAD DIMENSION MAY BE APPLICABLE FOR AMKOR PACKAGE ONLY. OTHER SUBCONS MAY FOLLOW DIFFERENT CORRELATION RULE FOR PACKAGE.

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- NOTES:
1. DIE THICKNESS ALLOWABLE IS 0.305mm MAXIMUM(.012 INCHES MAXIMUM)
 2. DIMENSIONING & TOLERANCES CONFORM TO ASME Y14.5M. – 1994.
 3. N IS THE NUMBER OF TERMINALS.
Nd IS THE NUMBER OF TERMINALS IN X-DIRECTION &
Ne IS THE NUMBER OF TERMINALS IN Y-DIRECTION.
 4. DIMENSION b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30mm FROM TERMINAL TIP.
 5. THE PIN #1 IDENTIFIER MUST BE EXISTED ON THE TOP SURFACE OF THE PACKAGE BY USING INDENTATION MARK OR OTHER FEATURE OF PACKAGE BODY.
 6. EXACT SHAPE AND SIZE OF THIS FEATURE IS OPTIONAL.
 7. ALL DIMENSIONS ARE IN MILLIMETERS.
 8. THE SHAPE SHOWN ON FOUR CORNERS ARE NOT ACTUAL I/O.
 9. BILATERAL COPLANARITY ZONE APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.
 10. APPLIED ONLY FOR TERMINALS.
 11. Q AND R APPLIES ONLY FOR STRAGHT TIEBAR SHAPES.
 12. FOR 0.40mm LEAD PITCH, THE LEAD POSITION TOLERANCE MUST BE 0.07mm AT THE ACTUAL MEAN VALUE OF BODY SIZE.
 13. REFERENCE ANAM 45277, VERSION 14

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