

Symbol	COMMON DIMENSIONS			Notes
	MIN.	NOM.	MAX.	
A	—	—	1.20	
A ₁	0.05	—	0.15	
A ₂	0.95	1.00	1.05	
b	0.17	0.22	0.27	13
b1	0.17	0.20	0.25	
c	0.10	—	0.21	
c1	0.10	—	0.16	
D	20.00 BSC			4
D1	18.40 BSC			5
E	12.00 BSC			5
e	0.50	0.60	0.70	6
L	48			
N	3*			
g	5*			
P	SEE VARIATIONS			19
P1	SEE VARIATIONS			19

- NOTES:
- DIE THICKNESS ALLOWABLE IS 0.292±0.013mm (.0115±.0005 INCHES)
 - DIMENSIONING & TOLERANCES PER ASME Y14.5M: - 1994.
 - DATUM PLANE [H] LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXIST PLASTIC BODY AT BOTTOM OF PARTING LINE.
 - DATUM [A-B] AND [D] TO BE DETERMINED WHERE CENTERLINE BETWEEN LEADS EXIST PLASTIC BODY AT DATUM PLANE [H]
 - "D1" & "E" DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS, AND ARE MEASURED AT THE PARTING LINE, MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15mm ON E AND 0.25 ON D1 PER SIDE.
 - DIMENSION IS THE LENGTH OF TERMINAL FOR SOLDERING TO A SUBSTRATE.
 - TERMINAL POSITIONS ARE SHOWN FOR REFERENCE ONLY.
 - FORMED LEADS SHALL BE PLANAR WITH RESPECT TO ONE ANOTHER WITHIN 0.076mm AT SEATING PLANE.
 - THE LEAD WIDTH DIMENSION DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND AN ADJACENT LEAD TO BE 0.07mm. SEE DETAIL "B" AND SECTION "C-C".
 - "X" DENOTES MOLD CAVITY IDENTIFICATION.
 - "COO" DENOTES COUNTRY OF ORIGIN.
 - TO BE DETERMINED AT SEATING PLANE [G].
 - SECTION "C-C" TO BE DETERMINED AT 0.10 TO BE 0.25 MM FROM THE LEAD TIP.
 - CONTROLLING DIMENSION: MILLIMETERS.
 - THIS PART IS COMPLIANT WITH JEDEC SPECIFICATION MO-142 VARIATION DD.
 - A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLATE TO THE LOWEST POINT OF THE PACKAGE BODY.
 - THE EXPOSED PAD IS COINCIDENT WITH THE TOP OR BOTTOM SIDE OF THE PACKAGE AND NOT ALLOWED TO PROTRUDE BEYOND THAT SURFACE.
 - EXPOSED PAD SHALL BE COPLANAR WITH BOTTOM OF PACKAGE WITHIN 0.05.
19. DIMENSIONS "P" AND "P1" ARE THERMALLY ENHANCED VARIATIONS. VALUES SHOWN ARE MAXIMUM SIZE OF EXPOSED PAD WITHIN LEAD COUNT AND BODY SIZE. END USERS SHOULD VERIFY AVAILABLE SIZE OF EXPOSED PAD FOR SPECIFIC DEVICE APPLICATION.

TITLE		PACKAGE OUTLINE, 48 LEAD, MATRIX, TYPE I, 12 X 20 TSOPT(OPTIONAL ePAD)	
SIZE	DRAW. NO.	35406	REV.
B			03
SCALE		SHEET 2 of 2	