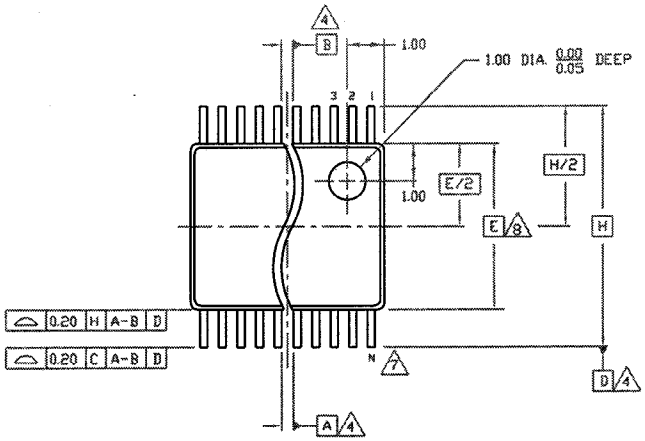
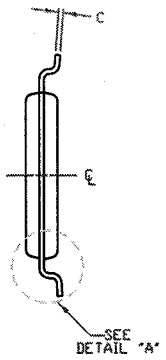
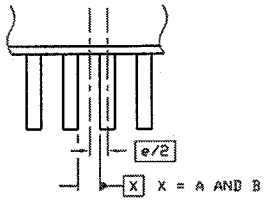
REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
	00	INITIAL RELEASE	04/23/00	RT
	01	ADDED ePAD TO LAND PATTERN	11/30/00	prcp



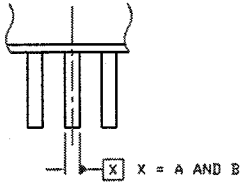
TOP VIEW



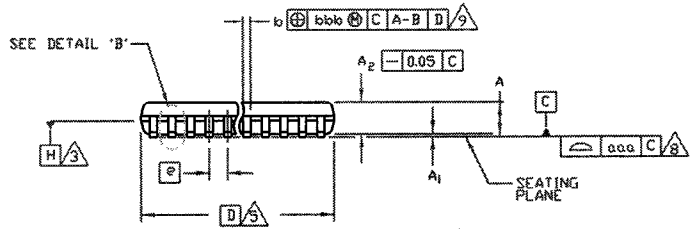
END VIEW



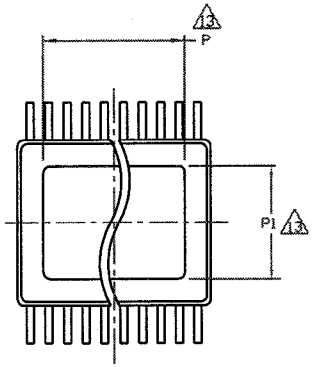
EVEN LEAD SIDES TOP VIEW



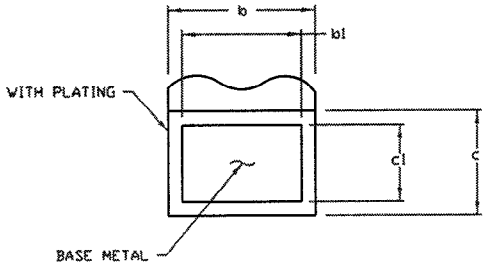
ODD LEAD SIDES TOP VIEW



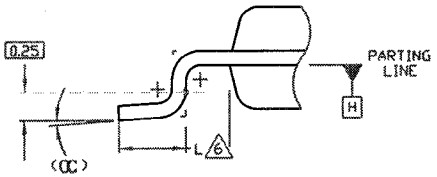
SIDE VIEW



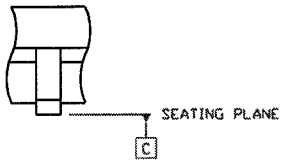
EXPOSED PAD VIEW



SECTION "C-C"
SCALE: 120/1
(SEE NOTE 10)



DETAIL 'A'
(SCALE: 30/1)



DETAIL 'B'
(SCALE: 30/1)
DAMBAR PROTRUSION

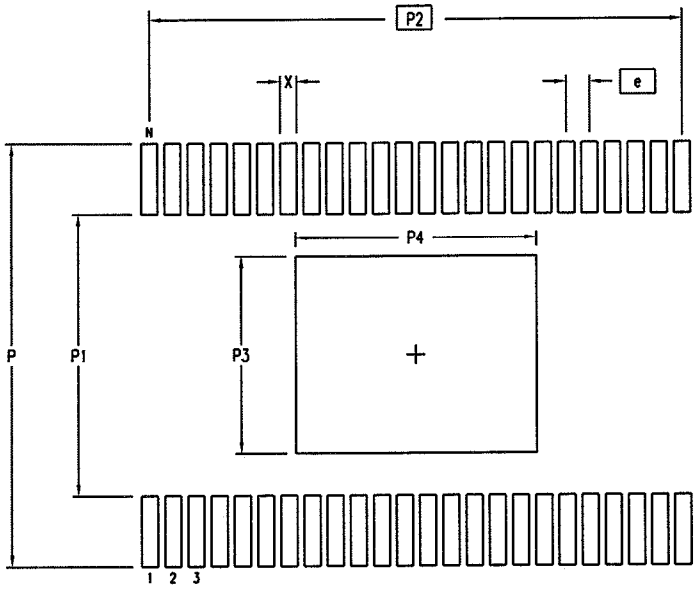
TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR X± .1 ±1° XX± .05 XXX± .025		Integrated Device Technology, Inc. 2975 Stender Way, Santa Clara, CA 95054 PHONE: (408) 727-6116 FAX: (408) 492-8674 TWX: 910-338-2070	
APPROVALS	DATE	TITLE DW48 PACKAGE OUTLINE 6.10 mm BODY, 0.5 mm PITCH TSSOP	
DRAWN PSCP	4/22/00		
CHECKED			
		SIZE C / DRAWING No. PSC-4092	REV 01
		DO NOT SCALE DRAWING	SHEET 1 OF 2

REVISIONS				
DCN	REV	DESCRIPTION	DATE	APPROVED
	00	INITIAL RELEASE	04/23/00	RT
	01	ADDED ePAD TO LAND PATTERN	11/30/00	PKP

ALL DIMENSIONS IN MILLIMETERS

SYMBOL	JEDEC VARIATION ED			NOTE
	MIN.	NOM.	MAX.	
A	———	———	1.10	
A_1	0.05	———	0.15	
A_2	0.85	0.90	0.95	
aaa		0.10		
b	0.17	-	0.27	9
b1	0.17	0.20	0.23	
bbb		0.08		
c	0.09	-	0.20	
c1	0.09	0.127	0.16	
D	12.40	12.50	12.60	5
E	6.00	6.10	6.20	5
e		0.50 BSC		
H		8.10 BSC		
L	0.50	0.60	0.75	6
N		48		7
α	0°	———	8°	

LAND PATTERN DIMENSIONS



	MIN	MAX
P	8.90	9.10
P1	5.90	6.10
P2	11.50 BSC	
P3	4.25	4.35
P4	5.25	5.35
X	.30	.40
e	.50 BSC	
N	48	

NOTES:

1. DIE THICKNESS ALLOWABLE IS 0.279±0.0127 (.0110±.0005 INCHES)
2. DIMENSIONING & TOLERANCES PER ASME. Y14.5M-1994.
3. DATUM PLANE H LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.
4. DATUMS A-B AND D TO BE DETERMINED WHERE CENTERLINE BETWEEN LEADS EXITS PLASTIC BODY AT DATUM PLANE H.
5. "D" & "E" ARE REFERENCE DATUMS AND DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS, AND ARE MEASURED AT THE BOTTOM PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15mm ON D AND 0.25mm ON E PER SIDE.
6. DIMENSION IS THE LENGTH OF TERMINAL FOR SOLDERING TO A SUBSTRATE.
7. TERMINAL POSITIONS ARE SHOWN FOR REFERENCE ONLY.
8. FORMED LEADS SHALL BE PLANAR WITH RESPECT TO ONE ANOTHER WITHIN 0.076mm AT SEATING PLANE.
9. 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 0.10MM FOR 0.65MM PITCH, 0.08MM FOR 0.50MM PITCH AND 0.07MM FOR 0.40MM PITCH PACKAGES.
10. SEE DETAIL 'B' AND SECTION "C-C". SECTION "C-C" TO BE DETERMINED AT 0.10 TO 0.25 MM FROM THE LEAD TIP.
11. CONTROLLING DIMENSION: MILLIMETERS.
12. THIS PART IS COMPLIANT WITH JEDEC SPECIFICATION MO-153, VARIATION ED.
13. DIMENSIONS "P" AND "P1" ARE THERMALLY ENHANCED VARIATIONS, VALUES SHOWN ARE MAXIMUM SIZE OF EXPOSED PAD WITHIN LEAD COUNT AND BODY SIZE. END USER SHOULD VERIFY AVAILABLE SIZE OF EXPOSED PAD FOR SPECIFIC DEVICE APPLICATION.

TOLERANCES UNLESS SPECIFIED
DECIMAL ANGULAR
X± .1 ±1°
XX± .05
XXX± .025

APPROVALS	DATE
DRAWN PKP	4/22/00
CHECKED	

Integrated Device Technology, Inc.
2975 Stender Way, Santa Clara, CA 95054
PHONE: (408) 727-6116
FAX: (408) 492-8674 TWX: 910-338-2070

TITLE
DW48 PACKAGE OUTLINE
6.10 mm BODY, 0.5 mm PITCH TSSOP

SIZE	DRAWING No.	REV
C	PSC-4092	01

DO NOT SCALE DRAWING SHEET 2 OF 2