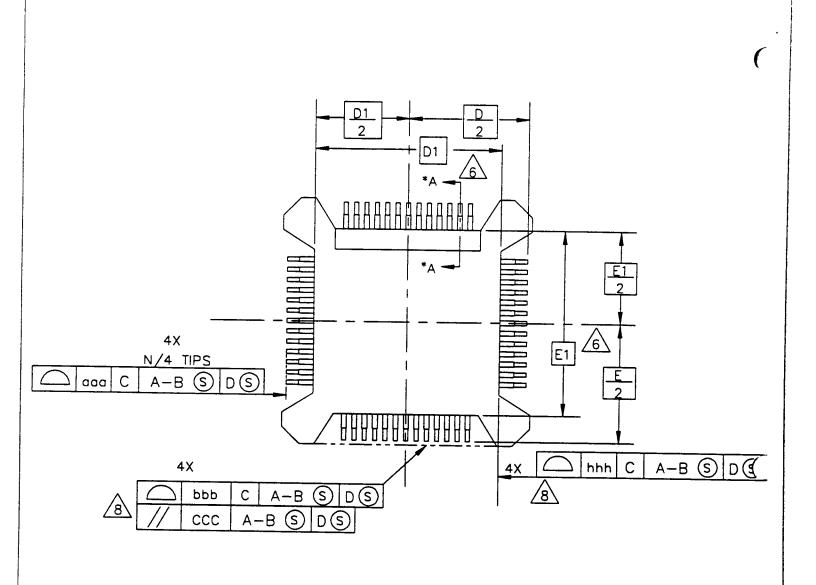
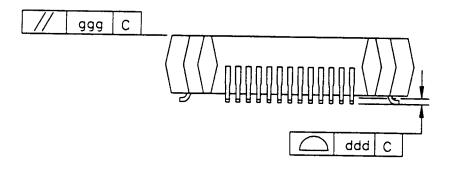


FIGURE 1 PRINCIPAL DIMENSIONS & DATUMS

JEDEC	TITLE DIASTIC OHAD SHAT DACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	1 OF 13





\* SEE FIGURE 4

FIGURE 2

JEDEC	TITLE PLASTIC OLLAD FLAT PACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	2 OF 13

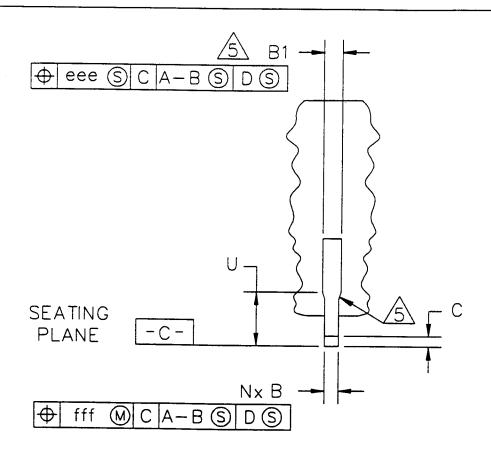


FIGURE 2 - TERMINAL DETAIL

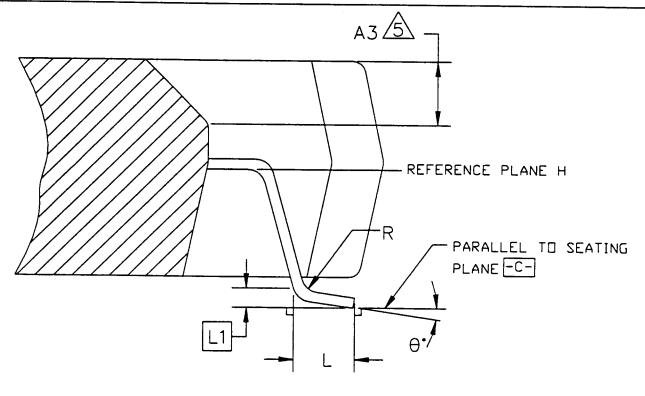


FIGURE 3 - SECTION A-A

JEDEC	TITLE PLASTIC OHAD FLAT BACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	3 OF 13

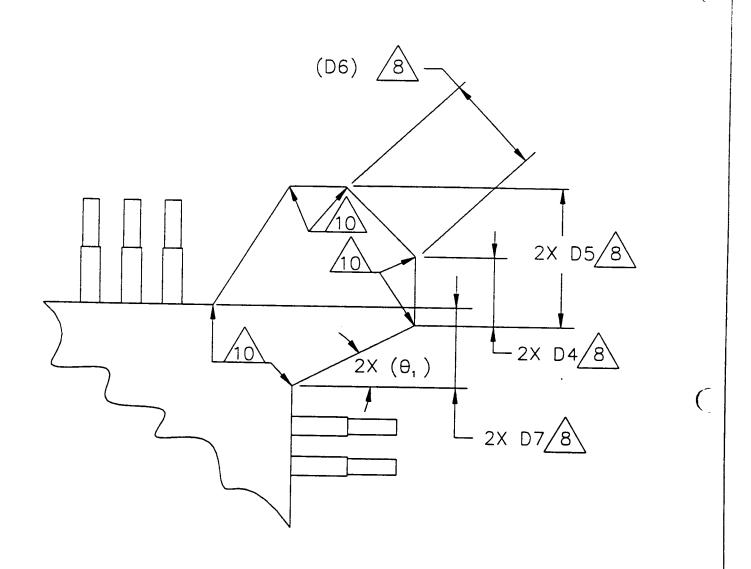


FIGURE 4 (TYP ALL CORNERS)

	JEDEC SOLID STATE PRODUCT OUTLINES	TITLE PLASTIC QUAD FLAT PACK .025" LEAD SPACING (GULLWING)		DATE 10/90	MO-069	PAGE 4 OF 13
--	--	--	--	---------------	--------	-----------------

S	COMMON	NATALCIONIC	
Y M	INCH	)IMENSIONS HES	NOHE
SYMBOL	MIN	MAX	Ė
A A1 A2 A3	 .020 .130 .042	.180 .040 .150 .056	
B B1 C D4 D5 D6	.008 .008 .0055 .035 .076 .060 (	.012 .016 .0080  .080 REF) .052	10 10 8 8 8 8
е	025	BASIC	
L L1 R U	.036 010  .035	.046 BASIC .012 	
aaa bbccddee fff ggg hh 0,	     0 32*	.010 .012 .002 .004 .006 .006 .005 .016 8°	

JEDEC	TITLE PLASTIC OLIAD FLAT PACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	MO-069	5 OF 13

S	VARIAT	IONS	ALL (	DIME	VSIONS I	N IN	CHES	
SYMBOL	АА	ZOHW	AB	Z 0 + E	AC	Z 0 T E	AD	Z O T E
L	BASIC	E	BASIC	E	BASIC	Ε	BASIC	E
D D D D D D E D D D E D D D E D D D E D D D E D D D E D	.580 .450 .600 .300 .580 .450 .600 .300	4 8 6 8 4 8 6 8 8 6 8	.680 .550 .700 .400 .680 .550 .700 .400	4 \text{\tiny{\text{\tin}\text{\tex{\tex	.780 .650 .800 .500 .780 .650 .800 .500	4 8 8 8 4 8 8 6 6 8	.880 .750 .900 .600 .880 .750 .900 .600	4 6,8 6,8 4 6,8 6,8
NOTE	1,9							
REF.	11-285							
ISSUE	В							

S	VARIATI	ONS	ALL [	DIME	VSIONS I	N IN	CHES	
Y M M O _	AE	Z O T E	AF	N 0 T E	AG	NOT E	АН	M-102
L	BASIC	E	BASIC	E	BASIC	E	BASIC	E
D D1 D2 D3 E E1 E2 E3 N	1.080 .950 1.100 .800 1.080 .950 1.100 .800 132	4 8 6 8 4 8 8 6 6 8	1.280 1.150 1.300 1.000 1.280 1.150 1.300 1.000 164	4 8 8 8 4 8 8 6 6 8	1.480 1.350 1.500 1.200 1.480 1.350 1.500 1.200 196	4 8 8 4 8 8 8 6 6 8 6 6 8	1.780 1.650 1.800 1.500 1.780 1.650 1.800 1.500 244	4 8 8 6 8 4 8 8 6 6 8
NOTE	1,9							
REF.	11-285							
ISSUE	В							

(

IEDEC	TITLE	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	PLASTIC QUAD FLAT PACK .025" LEAD SPACING (GULLWING)	В	_	мо-069	

## NOTES:

ALL DIMENSIONS AND TOLERANCES CONFORM TO ANSI Y14.5M-1982.



REFERENCE PLANE "H" LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH BOTTOM OF LEAD, WHERE IT EXITS PLASTIC BODY.



DATUM -A-B- AND -D- TO BE DETERMINED WHERE CENTER LEADS EXIT PLASTIC BODY AT REFERENCE PLANE "H".



TO BE DETERMINED AT SEATING PLANE -C-.



OPTIONAL FEATURE.



DIMENSIONS D1 AND E1 DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .010" PER SIDE ON D1 AND E1 DIMENSIONS, AND .007" PER SIDE ON D2 AND E2 DIMENSIONS



DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE CONTAINED WITHIN THE ZONE INDICATED. MAX WIDTH = .075" MAX LENGTH = .105".



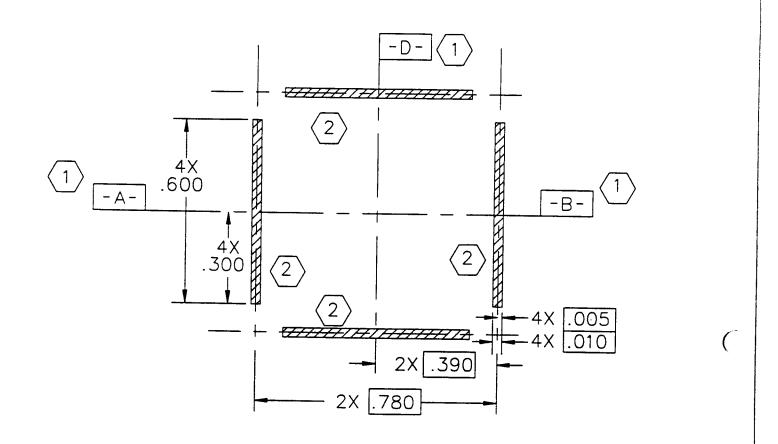
THESE DIMENSIONS TO BE DETERMINED AT REFERENCE PLANE "H".

9 ALL DIMENSIONS ARE IN INCHES.



THIS FEATURE MAY BE A CHAMFER OR RADIUS.

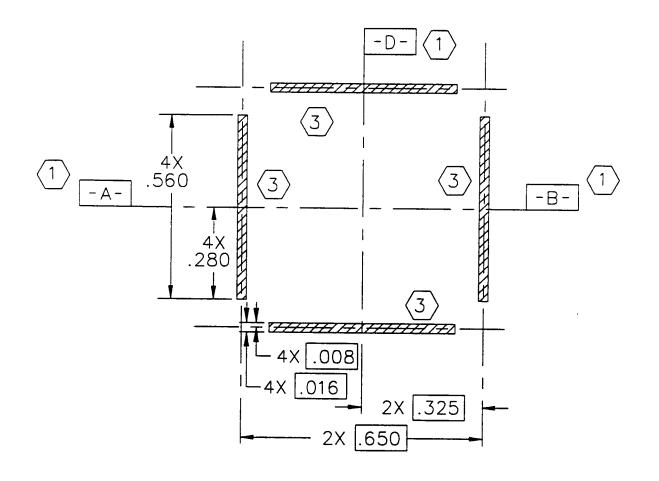
JEDEC	TITLE PLASTIC OLIAD FLAT PACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	7 OF 13



GAGE-D TERMINAL TIPS
VARIATION AC
TOLERANCE aga

SEE NOTES FOR GAGES

	T				
JEDEC SOLUE OFFICE SOLUE	TITLE PLASTIC OLIAD FLAT PACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	G-8 OF 13



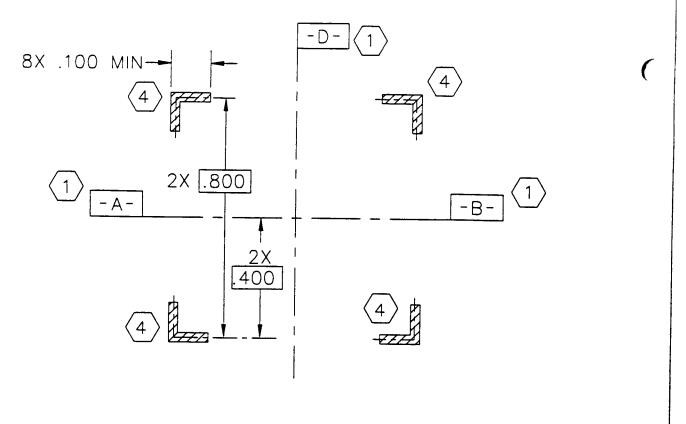
GAGE-D1 PACKAGE SIDES

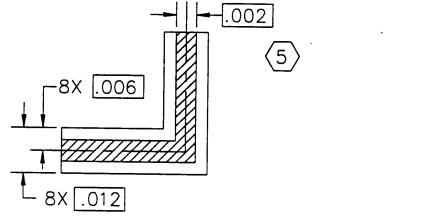
VARIATION AC

TOLERANCE hhh

SEE NOTES FOR GAGES

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE PLASTIC QUAD FLAT PACK .025" LEAD SPACING (GULLWING)	ISSUE B		PAGE MO-069 G-9 0F 1	3
--	--	------------	--	-------------------------	---



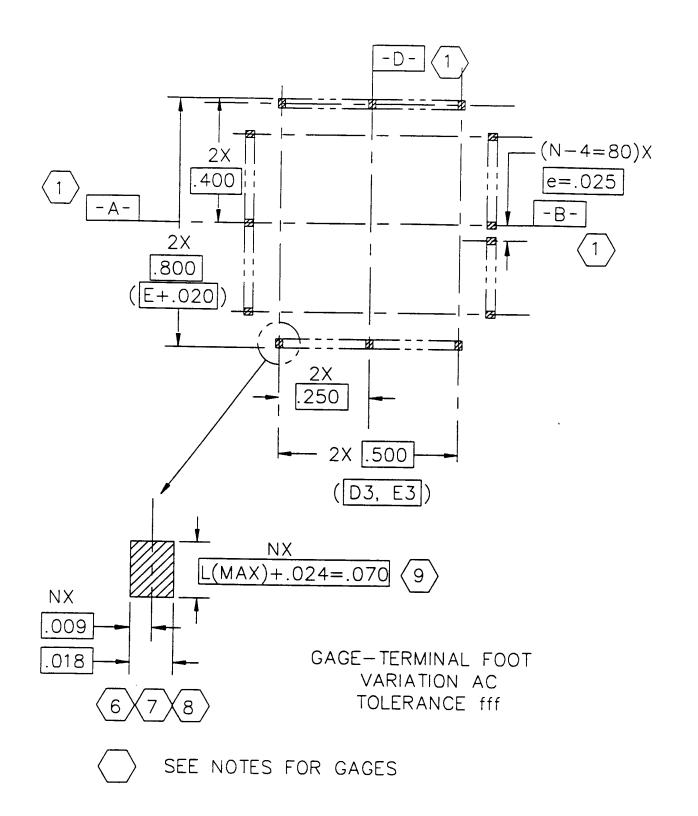


CORNER DETAIL

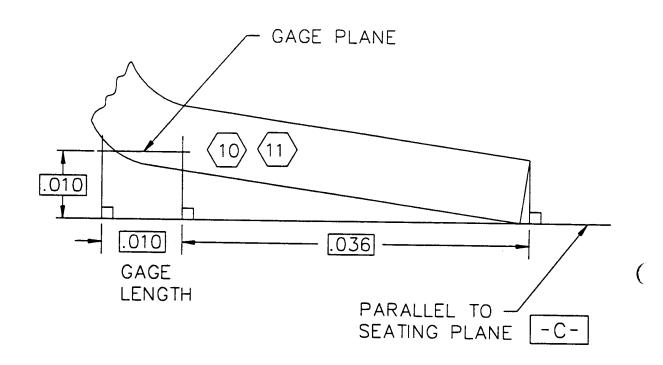
SEE NOTES FOR GAGES

GAGE-D2 BUMPERS
VARIATION AC
TOLERANCE bbb & ccc

JEDEC SOLUE	TITLE PLASTIC OHAD FLAT PACK	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	G-10 OF 13



JEDEC	TITLE	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	мо-069	G-11 OF 13



GAGE-L TERMINAL FLAT ALL VARIATIONS

SEE NOTES FOR GAGES

JEDEC
SOLID STATE PRODUCT OUTLINES

TITLE
PLASTIC QUAD FLAT PACK
OUTLINES

TITLE
PLASTIC QUAD FLAT PACK
B
10/90 MO-069 G-12 0F 13

## NOTES FOR GAGES

- 1. ALIGN DATUMS [A-B] AND [D] WITH CENTERLINE OF CENTER LEADS OF PACKAGE WHERE LEADS EXIT BODY.
- 2. TIPS OF TERMINALS MUST FALL IN TOLERANCE ZONE, SHADED AREA.
- 3. SIDES OF PACKAGE MUST FALL IN TOLERANCE ZONE, SHADED AREA.
- 4. EDGES OF BUMPERS MUST FALL IN TOLERANCE ZONE, SHADED AREA.
- 5. BUMPER OUTLINE MUST FALL IN THIS TOLERANCE ZONE, .002 WIDE SHADED AREA (SEE CORNER DETAIL). THIS ZONE MAY FLOAT WITHIN THE .012 WIDE TOLERANCE ZONE BUT MUST BE PARALLEL TO DATUMS [A-B] OR [D].
- 6. DIMENSION OF B OF TERMINAL FOOT MUST COMPLY WITH SIZE TOLERANCE BEFORE GAGE CAN BE USED
- 7. TOLERANCE ZONE = OUTER LOCUS OF TERMINAL FOOT

  OUTER LOCUS = MMC + POS. TOL. = .012 + .006 = .018
- 8. DIMENSION B OF TERMINAL FOOT MUST FALL IN TOLERANCE ZONE.
- 9. THIS DIMENSION MADE OVERSIZE TO ASSURE COVERAGE OF FOOT FOR INSPECTION.
- 10. DIMENSION R, C AND O MUST COMPLY WITH TOLERANCES BEFORE THE GAGE CAN BE USED
- 11. LOWER CONTOUR OF TERMINAL FOOT MUST FALL WITHIN GAGE LENGTH AS SHOWN.

JEDEC	TITLE	ISSUE	DATE		PAGE
SOLID STATE PRODUCT OUTLINES	.025" LEAD SPACING (GULLWING)	В	10/90	MO-069	G-13 OF 13