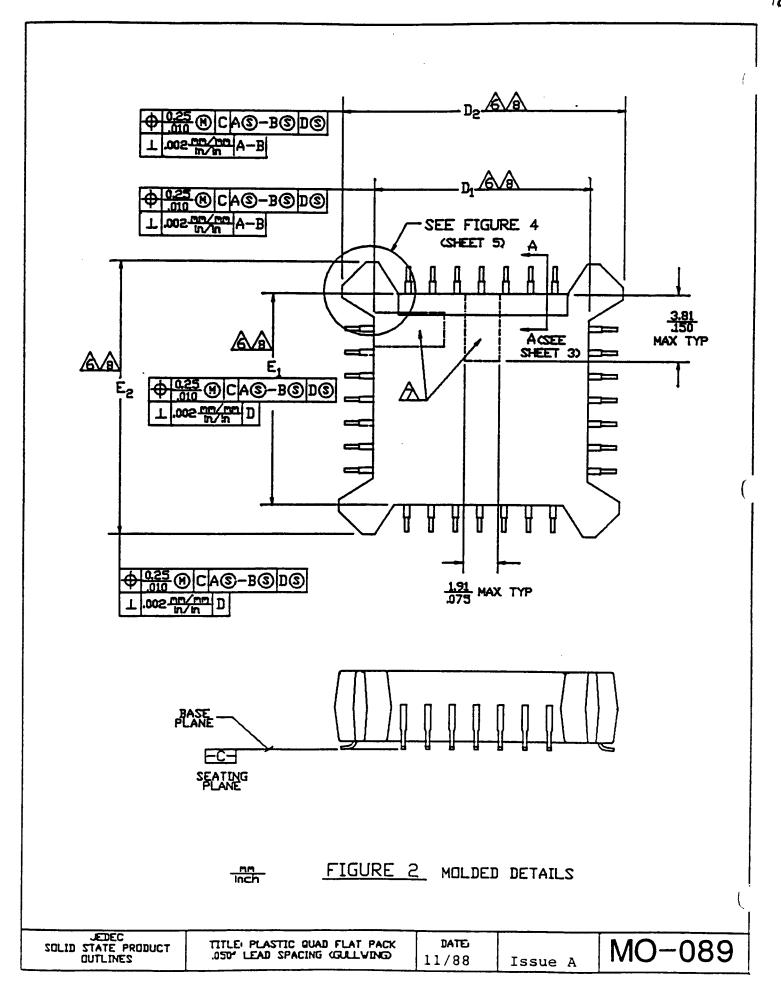
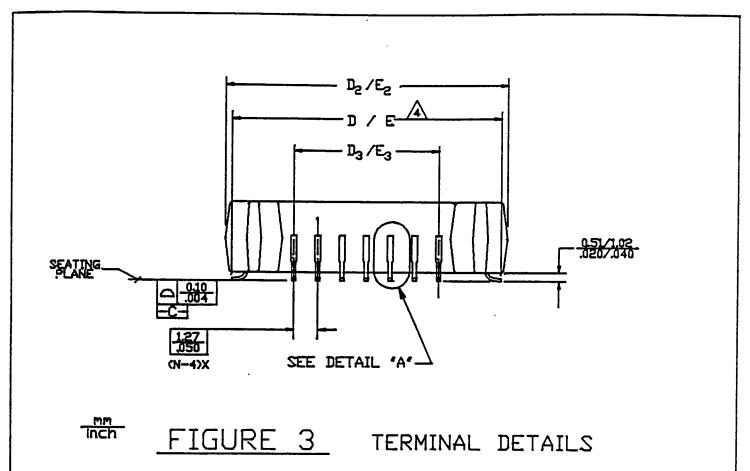
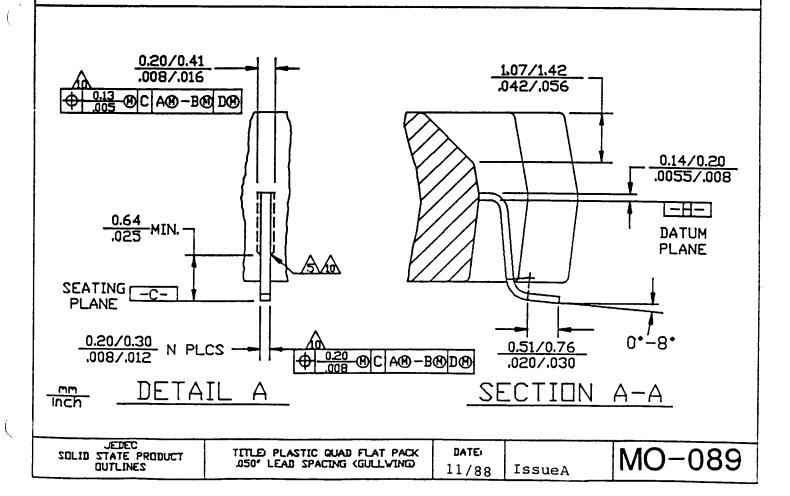


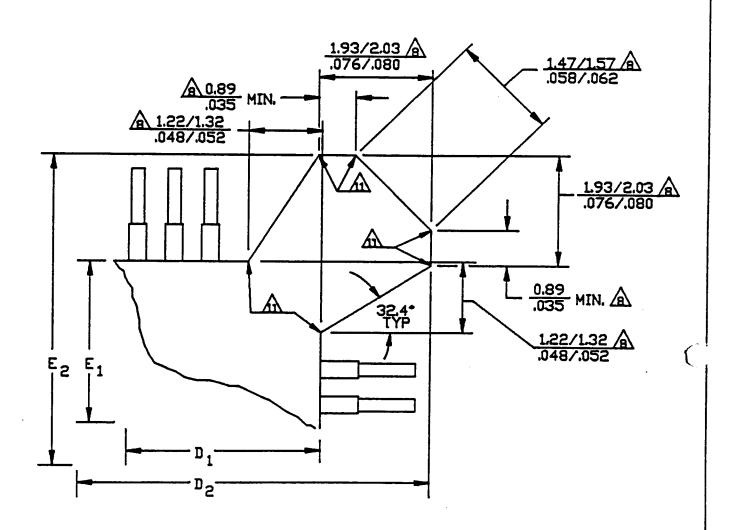
FIGURE 1 PRINCIPAL DIMENSIONS & DATUMS

JEDEC SCILID STATE PRODUCT OUTLINES TITLE: PLASTIC QUAD FLAT PACK .050' LEAD SPACING (GULLVING)	DATE: 11/88	Issue A	MO-089
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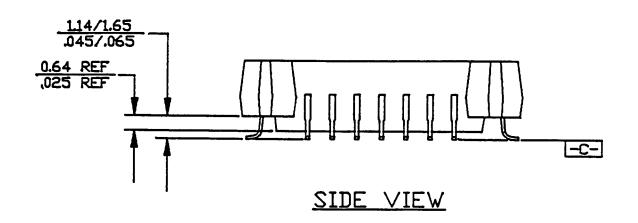


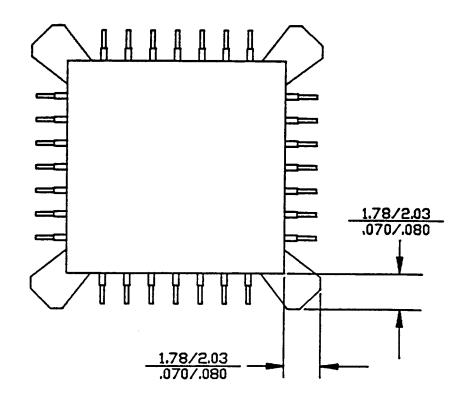


inch

FIGURE 4 (TYP ALL CORNERS)

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: PLASTIC QUAD FLAT PACK 050" LEAD SPACING (GULLWING)	DATE) 11/88	Issue A	MO-089





BOTTOM VIEW

mm Inch

FIGURE 5 RECESSED BUMPER
NOTE: RECESSED BUMPER FEATURE IS OPTIONAL

JEDEC SOLID STATE PRODUCT DUTLINES	TITLE PLASTIC QUAD FLAT PACK JSO' LEAD SPACING (GULL,VING)	DATE: 11/88	Issue A	MO-089
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SYM	VARIATIONS ALL DIMENSIONS IN INCHES											
8	Α	Α	N	Α	В	N	Α	С	ZULE	Α	D	
L	MIN.	MAX.	E	MIN.	MAX.	E	MIN.	MAX.	E	MIN,	MAX.	T E
ם	.575	.585	4	.775	.785	4	.875	.885	4	1,075	1,085	4
$ D_1 $.447	.453	8	.647	,653	8	.747	.753	8	ب947	.953	8
Da	.597	.603	8	.797	.803	8	.897	.903	8	1.097	1.103	8
\mathbb{D}_3	.300	REF		.500°	REF		.600	REF		.800	REF	
I E	.575	.585	4	775،	.785	4	,875	,885	4	1.075	1.085	4
E ₁	.447	.453	8	.647	.653	8	.747	.7 5 3	8	.947	.953	8
F5	.597	.603	8	797,	,803	8	.897	'303	8	1.097	1103	8
E ₃	.300	REF		.500	REF		.600	REF.		.800	REF	
N	2	8		4	4		5	2		6	8	
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S Y				VA	RIAT	IΠ	NS A	ALL DIME	בוצא:	m ni zn	ILLIMETE	er?
M B C	Α	A	N	A	В	א	А	С	Ř	A	D	N
L	MIN.	MAX.	£	MIN.	MAX.	ŀω	MIN.	MAX.	Z □-⊌	MIN.	MAX.	7 0 7 E
D	14.61	14.86	4	19.69	19.94	4	22.23	22.48	4	27.31	27,56	4
$ D_1 $	11.36	11.50	8	16.44	16.58	8	18.98	19.12	8	24.06	24,20	8
Da		15.31	8	20.25	20.39	8	22.79	22.93	8	27.87	28.01	8
$\mid D_3 \mid$	7.62	REF		12.70	REF		15,24	REF		20.32	REF	
느	14.61	14.86	4	19.69	19.94	4	22.23	22.48	4	27.31	27.56	4
E ₁	11.36	11.50	8	16.44	16.58	8	18.98	19.12	8	24.06	24,20	8
Εz	15.17	15.31	8	20.25	20.39	8	22.79	22.93	8	27.87	28.01	8
E3	7.62			12.70			15.24		i	20.32	REF	
N	5	8		4	4		51	2		6	8	
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	JEDEC STATE PRO		TLE: PI	_astic quai	FLAT PAC	<u> </u>	DATE	<u> </u>		NAC)-08	

S Y M			VARIA	TIONS	S ALL DIMENS	IONS IN INCHES
M B C	AE MIN. MA	X. E				
D D D 3 1 2 3 N	1.275	3 8 3 8 5 4 3 8				
S Y M			VARIATI	ONS 4	ALL DIMENSION	IS IN MILLIMETERS
M B C L	AE MIN. MAX	NOT E				
D D ₁	32.39 32.6- 29.14 29.29	4 4 8				
D ₂	32.95 33.09 25,40 REF					
E E E	32.39 32.64 29.14 29.23 32.95 33.09	8 8				
E N	25.40 REF 84					
20110 3	JEDEC STATE PRODUCT DILINES	TITLE PL	ASTIC QUAD FLAT PACK D SPACING GOLLVING	DATE: 11/88	Issue A	MO-089

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NOTESI

1	ALL	DIMENSIONS	AND	TOLERANCES	CONFORM	TΠ	ANSI	Y14.5-	1982
Δ	- · -								

DATUM PLANE -H- LOCATED AT MOLD PARTING LINE AND COINCIDENT WITH LEAD, WHERE LEAD EXITS PLASTIC BODY AT BOTTOM OF PARTING LINE.

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

 \triangle TO BE DETERMINED AT SEATING PLANE $\boxed{-C-}$

🟂 DETAIL OF TRANSITION IS OPTIONAL.

DIMENSIONS D₁ AND E₁ DO NOT INCLUDE MOLD PROTRUSION. ALLOWABLE MOLD PROTRUSION IS .010 $^{\prime}$ /0.254mm ON D₁ AND E₁ DIMENSIONS, AND .007 $^{\prime}$ /0.178mm ON D₂ AND E₂ DIMENSIONS.

DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN ONE OF THE TWO ZONES INDICATED.

THESE DIMENSIONS TO BE DETERMINED AT DATUM PLANE -H-

9 CONTROLLING DIMENSION: INCH.

LEAD SHOULDER WIDTH WIDER THAN LOWER LEAD WIDTH IS AN OPTIONAL WIDTH.

1 THIS FEATURE MAY BE A CHAMFER OR RADIUS.

THIS OUTLINE IS FOOTPRINT COMPATABLE WITH THE .050 INCH CQFP OUTLINE WHICH IS MO-084. ALL BODY DIMENSIONS AND SOME FOOTPRINT DIMENSIONS ARE IN COMMON WITH THE .025 INCH PQFP MO-069. SOME FOOTPRINT DIMENSIONS ARE IN COMMON WITH .025 INCH CQFP MO-082.

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE PLASTIC GUAD FLAT PACK 150' LEAD SPACING (GULLVING)	DATE: 11/88	Issue A	MO-089
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