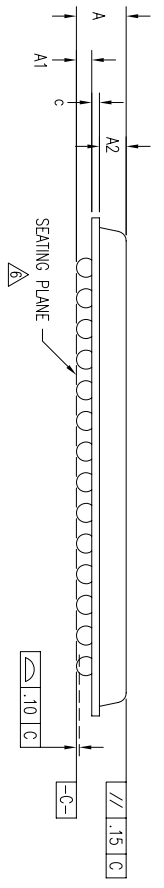
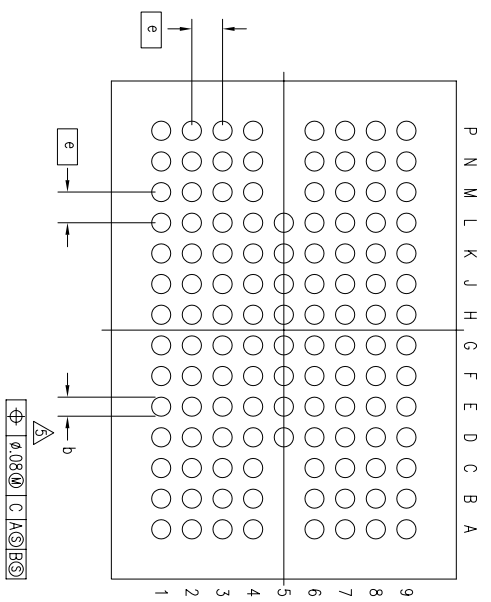
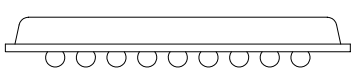
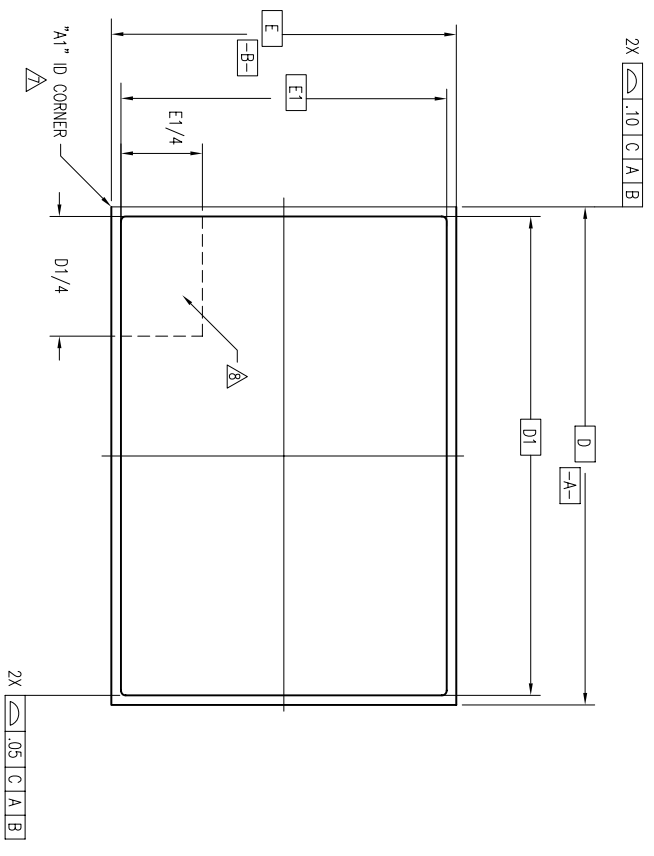


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/15/97	TV
01	COMBINE POD & LAND PATTERN	05/23/13	KS



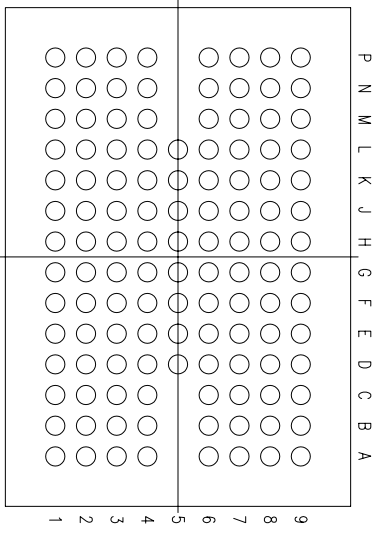
TOLERANCES UNLESS SPECIFIED			
DECIMAL	ANGULAR	±	
XXX±	XXXX±		
XXXX±	XXXX±		
APPROVALS	DATE	TITLE	
DRAWN 379	09/15/97	BF PACKAGE OUTLINE	
CHECKED		FPRGA	
		SIZE C	DO NOT SCALE DRAWING
		DRAWING No. PSC-4060	
		REV 01	SHEET 1 OF 3

IDT
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6024 SILVER CREEK VALLEY ROAD

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/15/97	TV
01	COMBINE POD & LAND PATTERN	05/23/13	KS




(120 BALL)

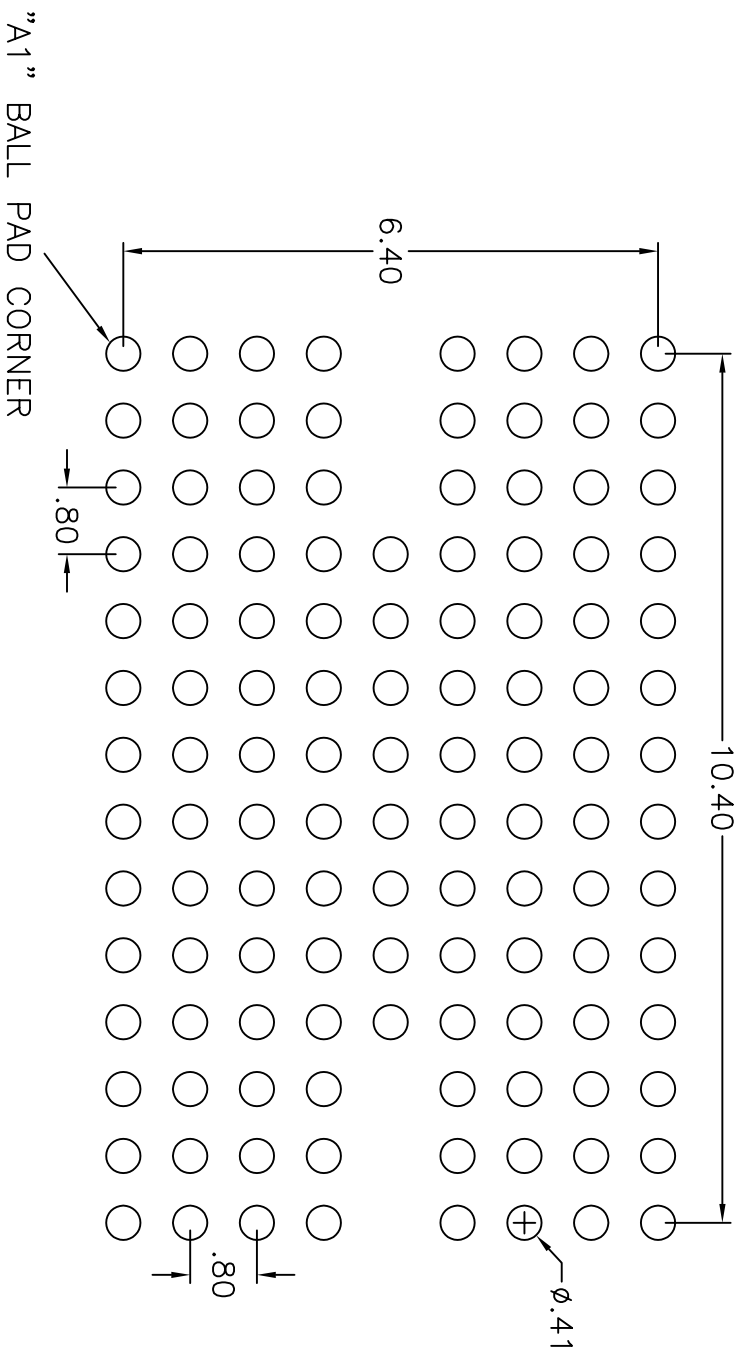
SYMBOL	JEDEC VARIATION NOT YET REGISTERED			NOTE
	MIN	NOM	MAX	
A	—	—	1.42	
A1	.35	.40	.45	
A2	.75	.80	.85	
D	13.00 BSC			
D1	12.50 BSC			
E	9.00 BSC			
E1	8.50 BSC			
M	9 X 14			3
N	120			4
e	.80 BSC			
b	.45	.50	.55	5
c	.08	—	.22	
CENTER BALL MATRIX	N/A			

NOTES:

- 1 ALL DIMENSIONING AND TOLERANCING CONFORM TO ANSI Y14.5M-1982
- 2 "e" REPRESENTS THE BASIC SOLDER BALL GRID PITCH
- 3 "M" REPRESENTS THE MAXIMUM SOLDER BALL MATRIX SIZE
- 4 "N" REPRESENTS THE BALLCOUNT NUMBER
- 5 DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM [C]
- 6 SEATING PLANE AND PRIMARY DATUM [C] ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
- 7 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
- 8 IF "A1" ID CORNER IS ON PACKAGE BODY, IT MUST BE LOCATED WITHIN THE ZONE INDICATED
- 9 ALL DIMENSIONS ARE IN MILLIMETERS

TOLERANCES UNLESS SPECIFIED		 6024 SILVER CREEK VALLEY ROAD SAN JOSE CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-8591	
DECIMAL	±	DATE	09/15/97
ANGULAR	±	APPROVALS	XXX± XXXX±
DRAWN	77J	TITLE	BF PACKAGE OUTLINE 9.0 X 13.0 mm BODY FPBGA
CHECKED		SIZE	C
		DRAWING NO.	PSC-4060
		REV	01
DO NOT SCALE DRAWING		SHEET 2 OF 3	

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/15/97	TV
01	COMBINE POD & LAND PATTERN	05/23/13	KS



RECOMMENDED LAND PATTERN DIMENSION (mm)

TOLERANCES UNLESS SPECIFIED		8024 Silver Creek Valley Road	
DECIMAL	ANGULAR	San Jose CA 95138	
XX.X	±1°	PHONE: (408) 284-8200	
XXX.X	±0.5°	FAX: (408) 284-8591	
XXXX.X	±0.9°	WWW.IDT.COM	
APPROVALS	DATE	TITLE	
DRAWN 2V	06/15/97	BF PACKAGE OUTLINE	
CHECKED		FPBGA	
SIZE	DRAWING No.	REV	
C	PSC-4060	01	
DO NOT SCALE DRAWING		SHEET	3 OF 3