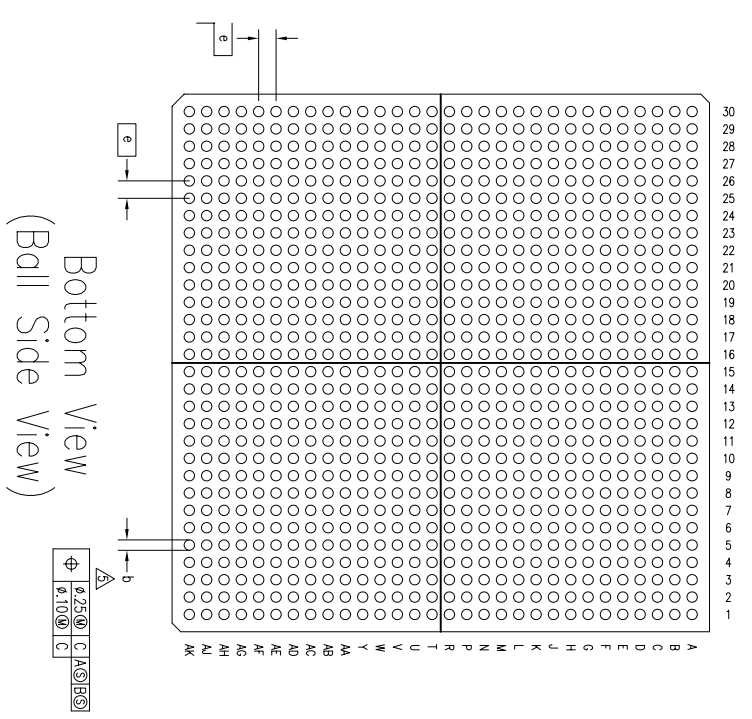
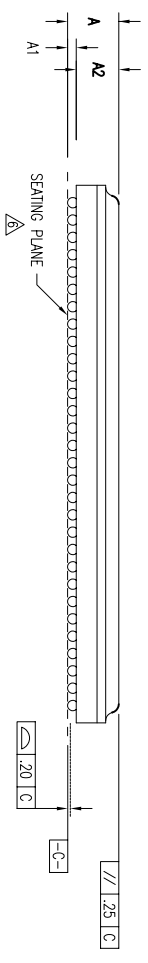
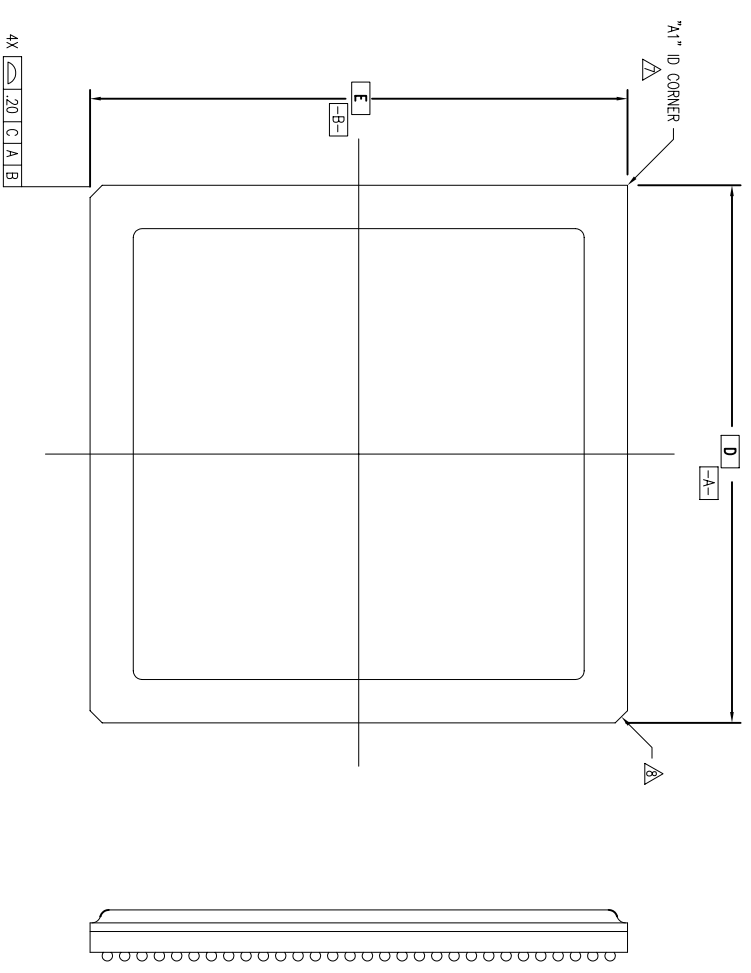

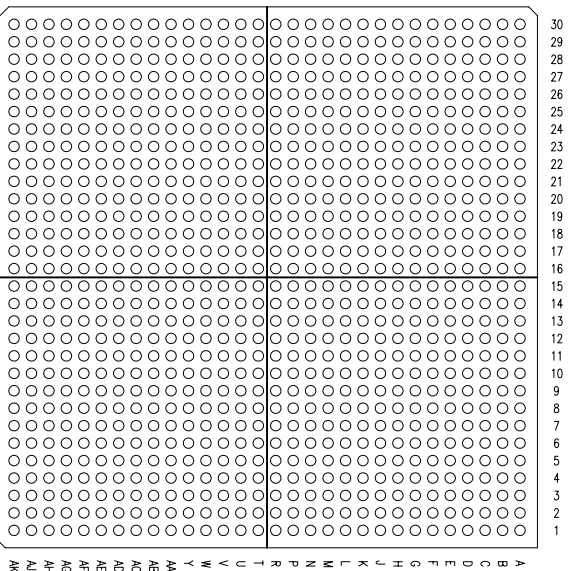


REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS



Bottom View
(Ball Side View)

TOLERANCES UNLESS SPECIFIED		 6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
DECIMAL	ANGULAR	TITLE AL/AR PACKAGE OUTLINE	
X± .05	E±	31.0 x 31.0 mm BODY	
XXX± .030		1.00 mm PITCH FCBGA	
APPROVALS	DATE	SIZE	DRAWING No.
DRAM JPP	09/12/06	C	PSC-4201
CHECKED		DO NOT SCALE DRAWING	REV
			01
			SHEET 1 OF 3




900 BALLS

SYMBOL	JEDEC VARIATION			NOTES
	MIN	NOM	MAX	
A	—	—	3.42	
A1	.30	—	—	
A2	2.16	—	2.82	
D	31.00 BSC			
E	31.00 BSC			
M	34			3
N	900			4
e	1.00 BSC			
b	.50	.60	.70	5
CENTER BALL MATRIX	N/A			

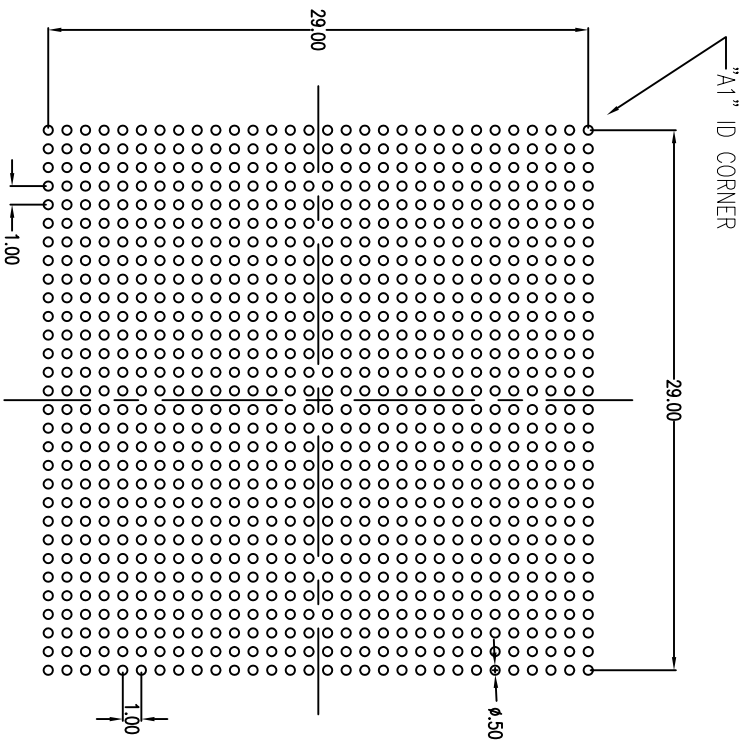
REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS

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
- DIMENSION "b" IS MEASURED AT THE MAXIMUM SOLDER BALL DIAMETER, PARALLEL TO PRIMARY DATUM ---C---
 SEATING PLANE AND PRIMARY DATUM ---C--- ARE DEFINED BY THE SPHERICAL CROWNS OF THE SOLDER BALLS
 "A1" ID CORNER MUST BE IDENTIFIED BY CHAMFER, INK MARK, METALLIZED MARKING, INDENTATION OR OTHER FEATURE ON PACKAGE BODY
 EXACT SHAPE OF EACH CORNER IS OPTIONAL
 ALL DIMENSIONS ARE IN MILLIMETERS


TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR XX.X .05 E1 XXXX .030		 San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572
APPROVALS DRAWN <i>JGP</i> CHECKED	DATE 09/12/06	
TITLE AL/AR PACKAGE OUTLINE 31.0 x 31.0 mm BODY 1.00 mm PITCH FCBGA		6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572
SIZE C DRAWING No. PSC-4201	DO NOT SCALE DRAWING	REV 01 SHEET 2 OF 3

REVISIONS			
REV	DESCRIPTION	DATE	APPROVED
00	INITIAL RELEASE	09/12/06	TV
01	COMBINE POD & LAND PATTERN	06/03/13	KS



RECOMMENDED LAND PATTERN DIMENSION

- NOTE:
- 1) ALL dimensions are in mm, Angles in degrees.
 - 2) Top down view, as view on PCB.
 - 3) NSMD Land Pattern Assumed
 - 4) Land Pattern Recommendation as per IPC-7351B generic requirement for surface mount design and Land Pattern.

TOLERANCES UNLESS SPECIFIED DECIMAL ANGULAR XX± .05 ±1° XXX± .030		 6024 Silver Creek Valley Rd San Jose, CA 95138 PHONE: (408) 284-8200 FAX: (408) 284-3572	
APPROVALS	DATE	TITLE	www.IDT.com
DRAWN <i>gjp</i>	09/12/06	AL/AR PACKAGE OUTLINE	
CHECKED		31.0 x 31.0 mm BODY	
		1.00 mm PITCH FCBGA	
SIZE	DRAWING No.	PSC-4201	REV
C			01
DO NOT SCALE DRAWING			SHEET 3 OF 3