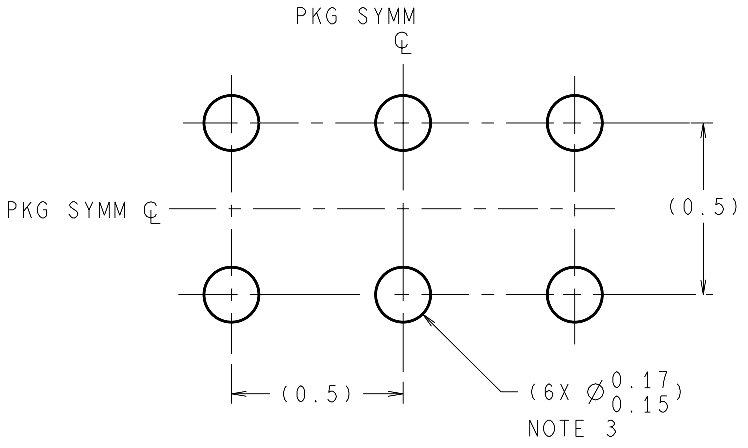
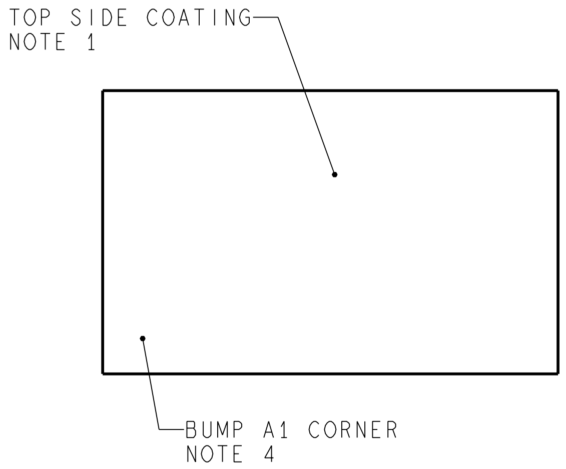
REVISIONS

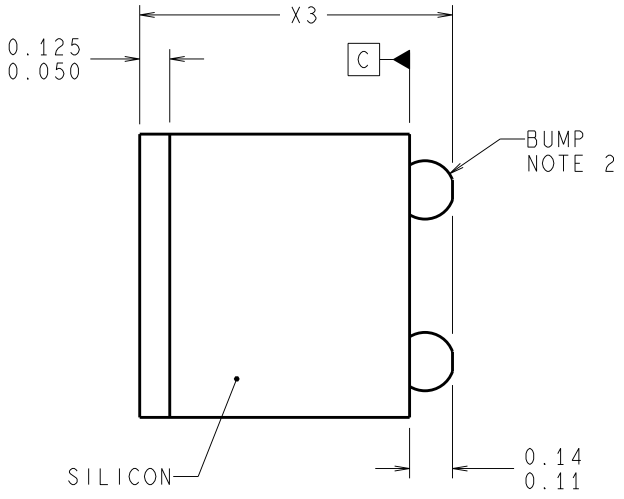
LTR	DESCRIPTION	E.C.N.	DATE	BY/APP'D
A	RELEASE TO DOCUMENT CONTROL	12285	09/13/1999	MS/NK
B	DIM 0.125/0.05 WAS 0.06/0.04; FLATTEN BUMP HEIGHT BY 0.005mm; X3 TOL 100 WAS 50.	173	10/04/2000	MS/VA
C	CHANGE BUMPS NUMBERING ORDER PER JEDEC; REMOVE DATE FROM NOTE 6; UPDATE NOTE 4.	523	02/11/2002	MS/VP

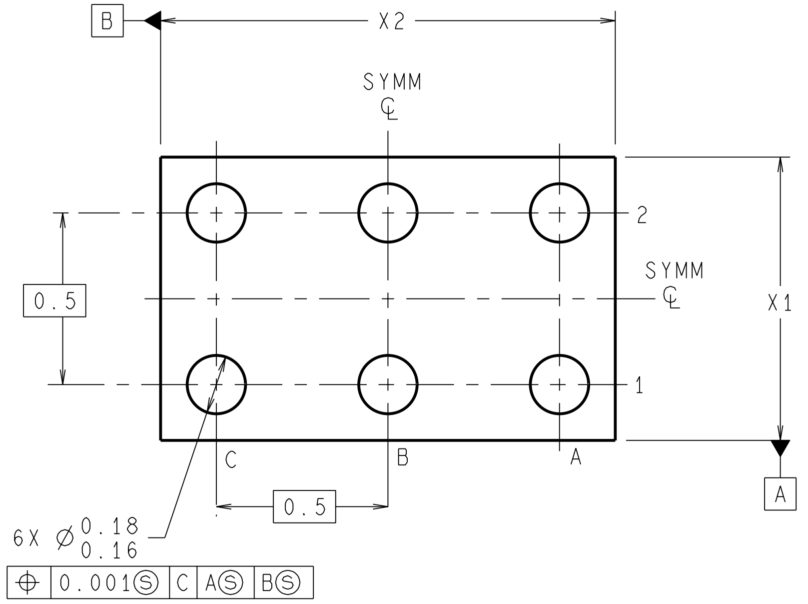


LAND PATTERN RECOMMENDATION

DIMENSIONS ARE IN MILLIMETERS







NOTES: UNLESS OTHERWISE SPECIFIED

1. EPOXY COATING.
2. 63Sn / 37Pb EUTECTIC BUMP.
3. RECOMMEND NON-SOLDER MASK DEFINED LANDING PAD.
4. PIN A1 IS ESTABLISHED BY LOWER LEFT CORNER WITH RESPECT TO TEXT ORIENTATION.
5. XXX IN DRAWING NUMBER REPRESENTS PACKAGE SIZE VARIATION WHERE X1 IS PACKAGE WIDTH, X2 IS PACKAGE LENGTH AND X3 IS PACKAGE HEIGHT (SEE TABLE, SHEET 2). EXAMPLE: BPA06AFA HAS WIDTH=777, LENGTH=1412, HEIGHT=700
6. REFERENCE JEDEC REGISTRATION MO-211, VARIATION BB.

APPROVALS	DATE
DRAWN **MARTA SUCHY**	09/13/1999
DFTG. CHK. *THANH LEQUANG*	02/11/2002
ENGR. CHK. *VIRAJ PATWARDHAN*	02/11/2002

PROJECTION
INCH
[MM]

National Semiconductor
2900 Semiconductor Dr, Santa Clara, CA 95052-8090

MICRO SMD, 6 BUMP,
0.5mm PITCH

SCALE	SIZE	DRAWING NUMBER	REV
N/A	C	(SC)MKT-BPA06XXX	C

DO NOT SCALE DRAWING

SHEET 1 of 2

REVISIONS				
LTR	DESCRIPTION	E.C.N.	DATE	BY/APP'D
	SEE SHEET 1			

PACKAGE DIMENSIONS

X1 DESIGNATOR	X1 PACKAGE WIDTH ±30μm	X2 DESIGNATOR	X2 PACKAGE LENGTH ±30μm	X3 DESIGNATOR	X3 PACKAGE HEIGHT ±100μm
A	777	A	1285	A	700
B	803	B	1311	B	850
C	828	C	1336	C	900
D	853	D	1361		
E	879	E	1387		
F	904	F	1412		
G	930	G	1438		
H	955	H	1463		
J	980	J	1488		
K	1006	K	1514		
L	1031	L	1539		
M	1057	M	1565		
N	1082	N	1590		
P	1107	P	1615		
Q	1133	Q	1641		
R	1158	R	1666		
S	1184	S	1692		
T	1209	T	1717		
U	1234	U	1742		
V	1260	V	1768		
W	1285	W	1793		
X	1311	X	1819		
Y	1336	Y	1844		
2	1361	2	1869		
3	1387	3	1895		
4	1412	4	1920		
5	1438	5	1946		
6	1463	6	1971		

APPROVALS	DATE
DRAWN **MARTA SUCHY**	09/13/1999
DFTG. CHK. *THANH LEQUANG*	02/11/2002
ENGR. CHK. *VIRAJ PATWARDHAN*	02/11/2002

PROJECTION

INCH
[MM]

National Semiconductor

2900 Semiconductor Dr, Santa Clara, CA 95052-8090

MICRO SMD, 6 BUMP,
0.5mm PITCH

SCALE	SIZE	DRAWING NUMBER	REV
N/A	C	(SC)MKT-BPA06XXX	C

DO NOT SCALE DRAWING

SHEET 2 of 2