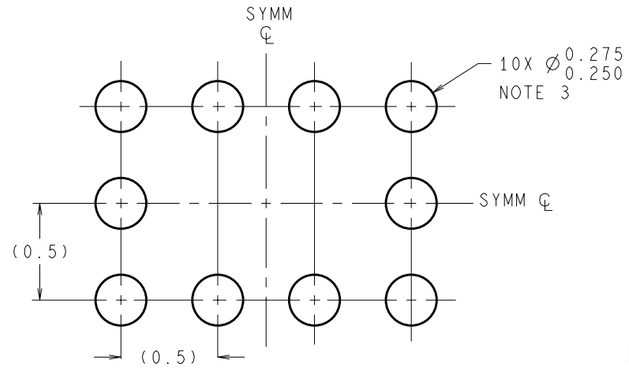
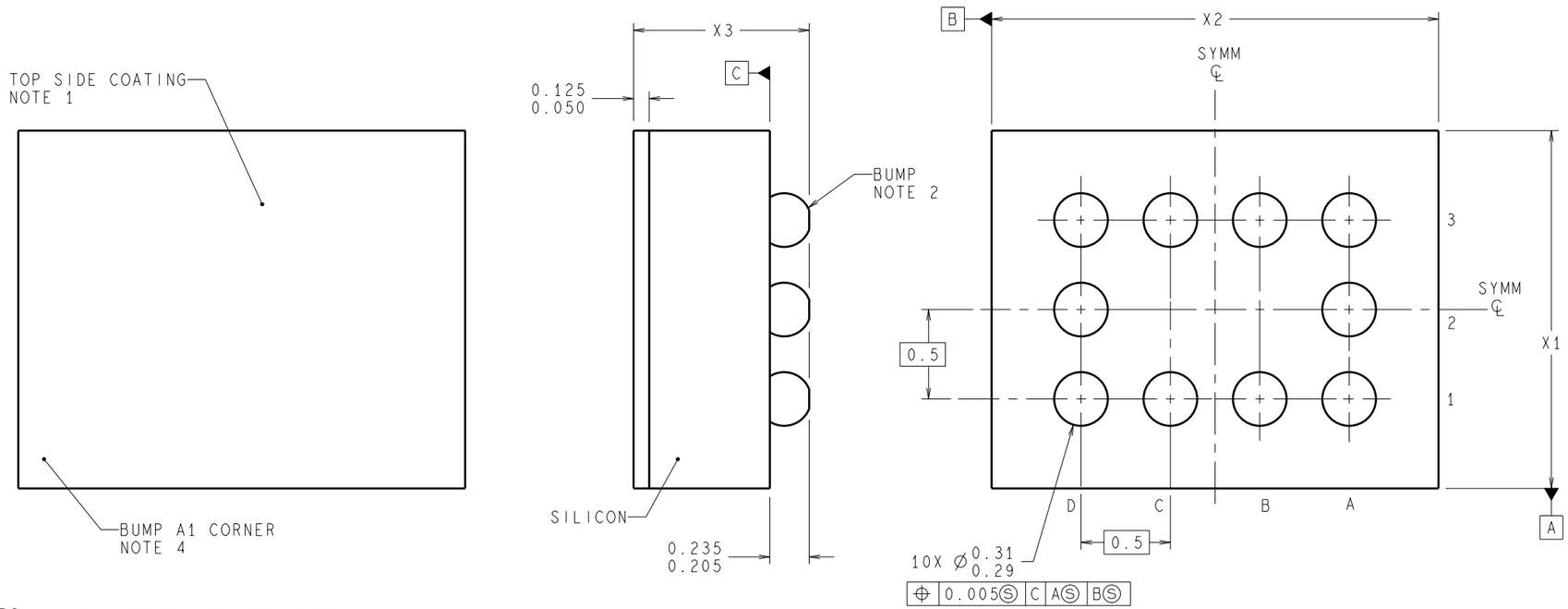
REVISIONS				
LTR	DESCRIPTION	E.C.N.	DATE	BY/APP'D
A	RELEASE TO DOCUMENT CONTROL	390	08/17/2001	MS/VP
B	CHANGE BUMPS NUMBERING ORDER PER JEDEC; JEDEC VARIATION WAS BC; UPDATE NOTE 4.	518	02/11/2002	MS/VP



DIMENSIONS ARE IN MILLIMETERS

LAND PATTERN RECOMMENDATION



NOTES: UNLESS OTHERWISE SPECIFIED

1. EPOXY COATING.
2. 63 Sn / 37 Pb 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: BLP10EFB HAS WIDTH=1615, LENGTH=2123, HEIGHT=945
6. REFERENCE JEDEC REGISTRATION MO-211, VARIATION BD.

APPROVALS	DATE
DRAWN MARTA SUCHY	08/17/2001
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, 10 BUMP(LARGE), PERIPHERAL, 0.5mm PITCH

SCALE	SIZE	DRAWING NUMBER	REV
N/A	C	(SC)MKT-BLP10XXX	B

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	1514	A	1996	A	795
B	1539	B	2022	B	945
C	1565	C	2047	C	995
D	1590	D	2073		
E	1615	E	2098		
F	1641	F	2123		
G	1666	G	2149		
H	1692	H	2174		
J	1717	J	2200		
K	1742	K	2225		
L	1768	L	2250		
M	1793	M	2276		
N	1819	N	2301		
P	1844	P	2327		
Q	1869	Q	2352		
R	1895	R	2377		
S	1920	S	2403		
T	1946	T	2428		
U	1971	U	2454		
V	1996	V	2479		
W	2022	W	2504		
X	2047	X	2530		
Y	2073	Y	2555		
Z	2098	Z	2581		
1	2123	1	2606		
2	2149	2	2631		
3	2174	3	2657		
4	2200	4	2682		
5	2225	5	2708		
6	2250	6	2733		

APPROVALS	DATE
DRAWN MARTA SUCHY	08/17/2001
DFTG. CHK. THANH LEQUANG	02/11/2002
ENGR. CHK. VIRAJ PATWARDHAN	02/11/2002

PROJECTION

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