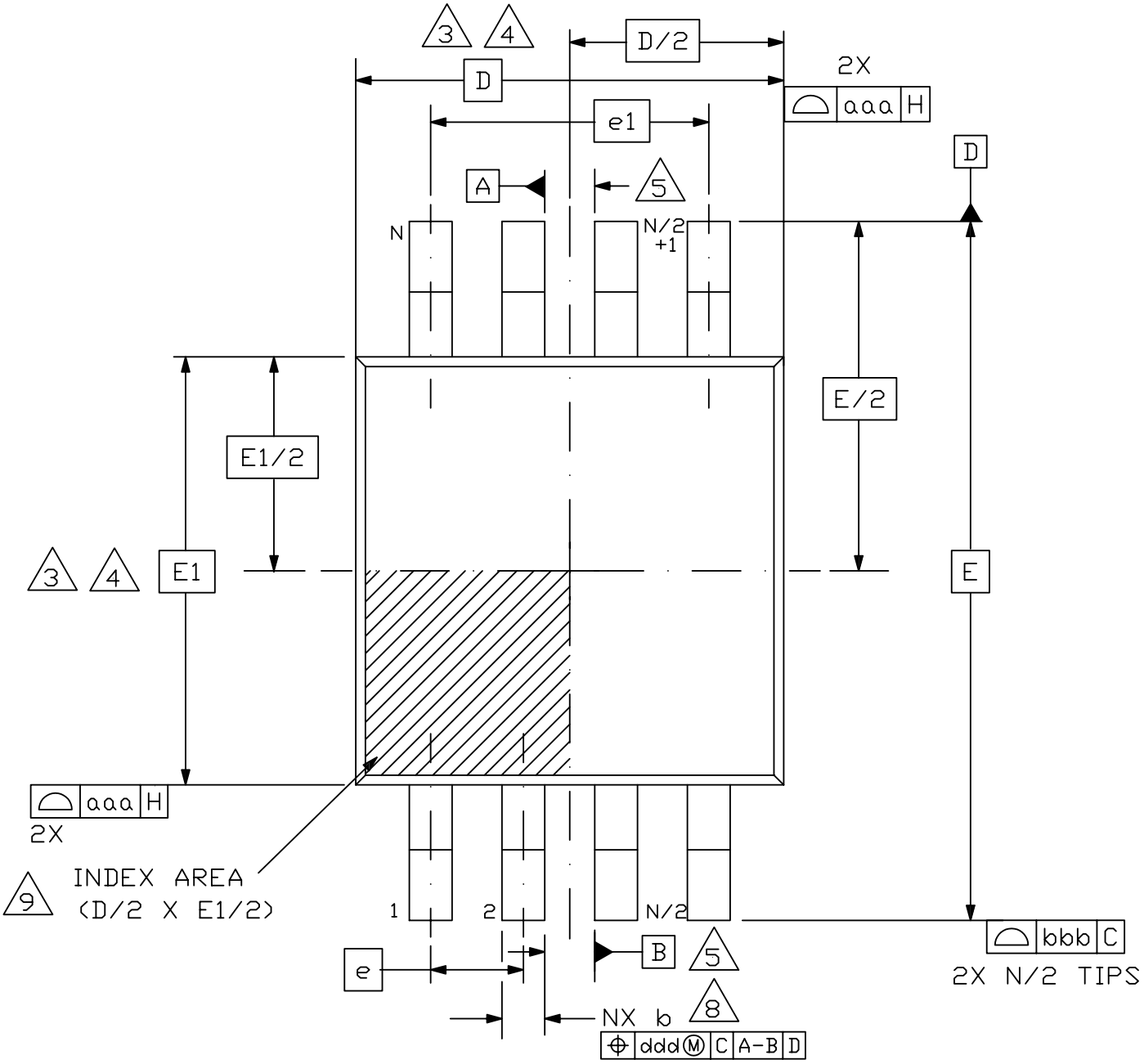
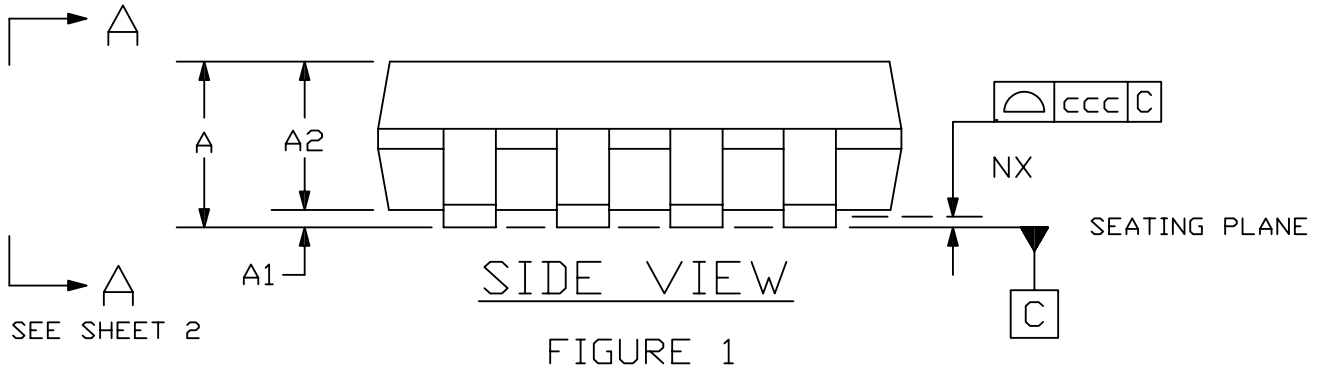


TOP VIEW

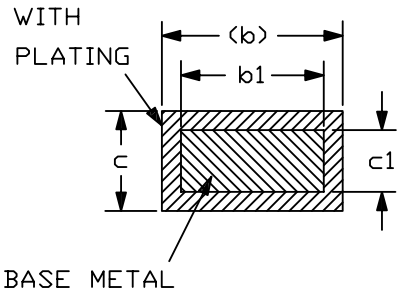


SIDE VIEW

FIGURE 1

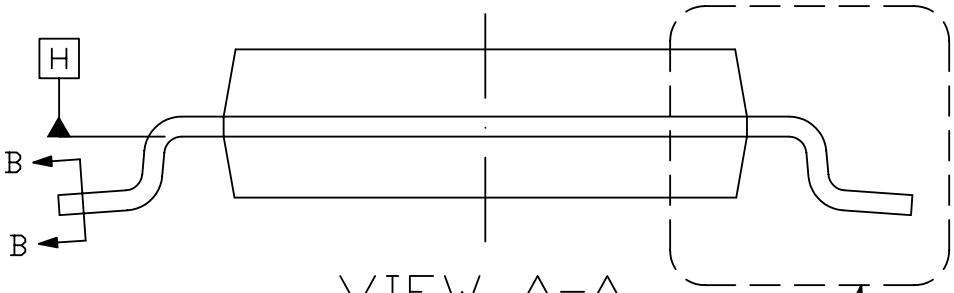
JEDEC SOLID STATE PRODUCT OUTLINE	THIS *REGISTERED OUTLINE* HAS BEEN PREPARED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USAGE IN THE ELECTRONICS INDUSTRY; CHANGES ARE LIKELY TO OCCUR.

TITLE	PACKAGE DESIGNATOR	ISSUE	DATE		
PLASTIC , LOW/THIN/VERY THIN SHRINK SMALL OUTLINE PACKAGE 0.65 AND 0.50 PITCH	(H)(L,T,V) SR-PDSO	F	Sept 2010	MO-187	1 OF 9



SECTION B-B

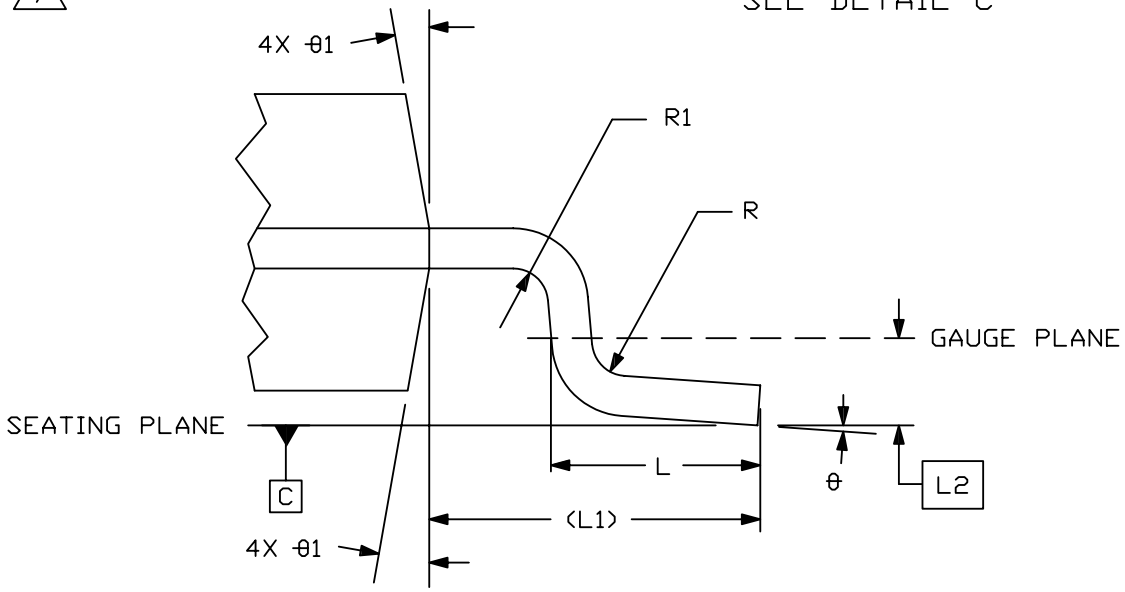
7



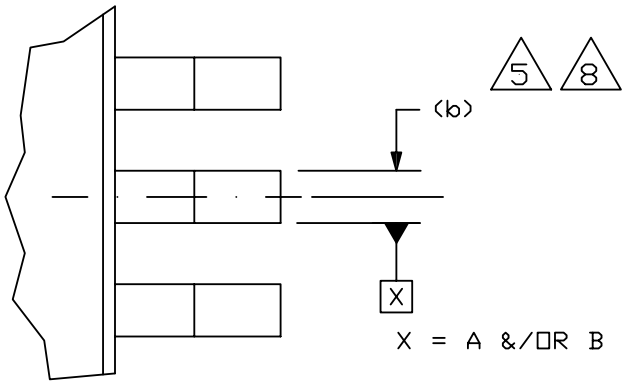
VIEW A-A

SHEET 1

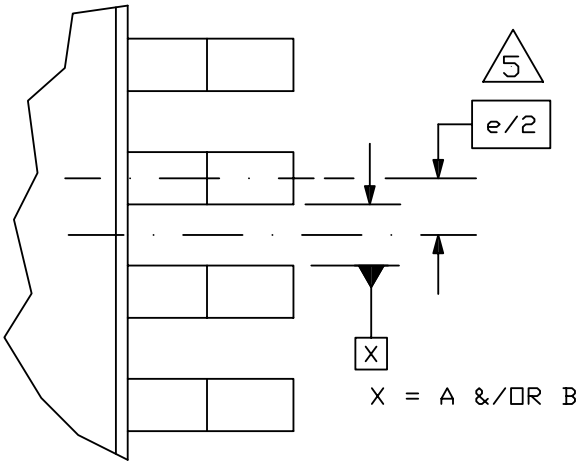
SEE DETAIL C



DETAIL C



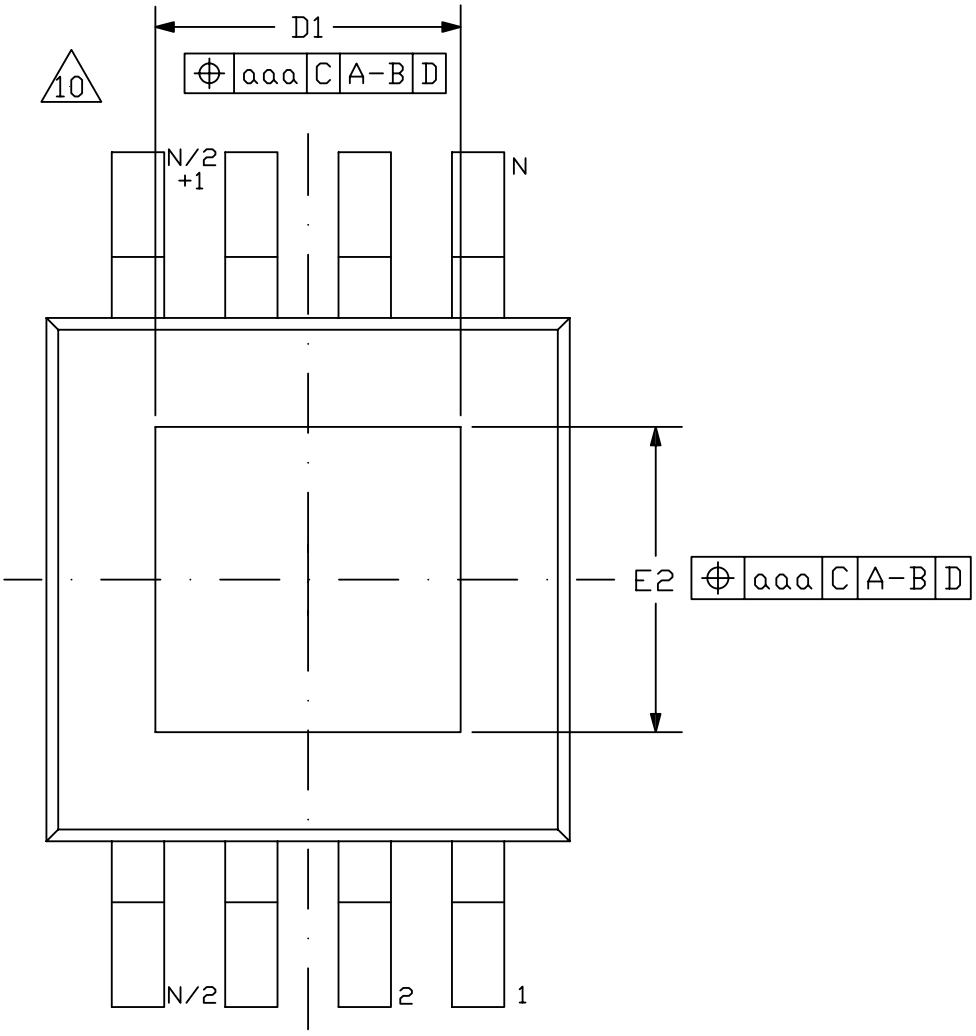
ODD LEAD SIDES
TOP VIEW



EVEN LEAD SIDES
TOP VIEW

FIGURE 2

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE PLASTIC,LOW/THIN/VERY THIN SHRINK SMALL OUTLINE PACKAGE 0.65 AND 0.50 PITCH	ISSUE F	DATE Sept 2010	MO-187	2 OF 9



BOTTOM VIEW

(THERMALLY ENHANCED VARIATIONS ONLY)

COMMON DIMENSIONS AND TOLERANCES

SYMBOL	ALL DIMENSIONS IN MILLIMETERS			NOTES
	MIN	NOM	MAX	
A1	0	--	0.15	
c	0.08	--	0.23	7
c1	0.08	--	0.18	7
R	0.07	--	--	
R1	0.07	--	--	
θ	0°	--	8°	
θ1	5°	--	15°	
NOTES	1,2			
REF.	11-430			
ISSUE	A			

SYMBOL	TOLERANCES OF FORM AND POSITION	NOTES
aaa	0.20	
bbb	0.25	
ccc	0.10	
NOTES	1,2	
REF.	11-552	
ISSUE	B	

VARIATIONS - THIN PROFILE

SYMBOL	AA			BA						NOTES
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
A	--	--	1.10	--	--	1.10				
A2	0.75	0.85	0.95	0.75	0.85	0.95				
b	0.22	--	0.38	0.17	--	0.33				7
b1	0.22	0.30	0.33	0.17	0.20	0.23				7
D	3.00 BSC			3.00 BSC						3,4
D1	--			--						
E	4.90 BSC			4.90 BSC						
E1	3.00 BSC			3.00 BSC						3,4
E2	--			--						
e	0.65 BSC			0.50 BSC						
e1	1.95 BSC			2.00 BSC						
L	0.40	0.60	0.80	0.40	0.60	0.80				
L1	0.95 REF			0.95 REF						
L2	0.25 BSC			0.25 BSC						
N	8			10						6,9

TOLERANCES OF FORM AND POSITION

ddd	0.13	0.08	
NOTE	1,8	1,8	
REF	11-430/11-552	11-552/11-694	
ISSUE	A/B	B/E	

SYMBOL	AA-T			BA-T						NOTES
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
A	--	--	1.10	--	--	1.10				
A2	0.75	0.85	0.95	0.75	0.85	0.95				
b	0.22	--	0.38	0.17	--	0.33				7
b1	0.22	0.30	0.33	0.17	0.20	0.23				7
D	3.00 BSC			3.00 BSC						3,4
D1	0.75	--	2.50	0.75	--	2.50				10
E	4.90 BSC			4.90 BSC						
E1	3.00 BSC			3.00 BSC						3,4
E2	0.75	--	2.50	0.75	--	2.50				10
e	0.65 BSC			0.50 BSC						
e1	1.95 BSC			2.00 BSC						
L	0.40	0.60	0.80	0.40	0.60	0.80				
L1	0.95 REF			0.95 REF						
L2	0.25 BSC			0.25 BSC						
N	8			10						6,9

TOLERANCES OF FORM AND POSITION

ddd	0.13	0.08	
NOTE	1,8,10	1,8,10	
REF	11-409	11-409/11-694	
ISSUE	D	D/E	

VARIATIONS - VERY THIN PROFILE

SYMBOL	CA									NOTES
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
A	--	--	1.00							
A2	0.60	0.70	0.85							
b	0.17	--	0.33							7
b1	0.17	0.20	0.23							7
D	2.00 BSC									3,4
D1	--									
E	3.10 BSC									
E1	2.30 BSC									3,4
E2	--									
e	0.50 BSC									
e1	1.50 BSC									
L	0.15	0.28	0.40							
L1	0.40 REF									
L2	0.12 BSC									
N	8									6,9

TOLERANCES OF FORM AND POSITION

ddd	0.08
NOTE	1,8
REF	11-407/11-694
ISSUE	C/E

VARIATIONS - LOW PROFILE

SYMBOL	DA									NOTES
	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	MIN.	NOM.	MAX.	
A	--	--	1.35							
A2	1.00	1.10	1.20							
b	0.15	--	0.30							7
b1	0.15	0.20	0.23							7
D	2.95 BSC									3,4
D1	--									
E	4.00 BSC									
E1	2.80 BSC									3,4
E2	--									
e	0.65 BSC									
e1	1.95 BSC									
L	0.20	0.40	0.60							
L1	0.60 REF									
L2	0.25 BSC									
N	8									6,9
	TOLERANCES OF FORM AND POSITION									
ddd	0.13									
NOTE	1,8									
REF	10-407									
ISSUE	C									

NOTES

1 DIMENSIONING AND TOLERANCING PER ASME Y14.5M-1994.

2 ALL DIMENSIONS ARE IN MILLIMETERS.

3 DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.15 mm PER END. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.25 mm PER SIDE FOR VARIATIONS WITH BODY SIZES =3x3mm.

INTERLEAD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 mm FOR VARIATIONS WHERE EITHER D OR E1 IS <3mm.

D AND E1 DIMENSIONS ARE DETERMINED AT DATUM H.

4 THE PACKAGE TOP MAY BE SMALLER THAN THE PACKAGE BOTTOM. DIMENSIONS D AND E1 ARE DETERMINED AT THE OUTERMOST EXTREMES OF THE PLASTIC BODY EXCLUSIVE OF MOLD FLASH, TIE BAR BURRS, GATE BURRS AND INTERLEAD FLASH, BUT INCLUDING ANY MISMATCH BETWEEN THE TOP AND BOTTOM OF THE PLASTIC BODY. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM H.

5 DATUMS A-B TO BE DETERMINED AT DATUM H.

6 TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.

7 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.08 mm AND 0.15 mm FROM THE LEAD TIP.

8 DIMENSION 'b' DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 mm TOTAL IN EXCESS OF THE 'b' DIMENSION AT MAXIMUM MATERIAL CONDITION. THE DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN 0.07 mm.

9 DETAILS OF THE PIN 1 IDENTIFIER ARE OPTIONAL, BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.

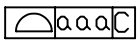
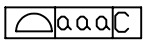
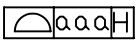
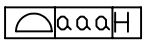
10 CAUTION SHOULD BE TAKEN DURING DESIGN, ASSEMBLY AND PROCESSING TO PREVENT DEPOSITED BOARD SOLDER FROM HOLDING THE LEADS OFF THE BOARD. THIS IS APPLICABLE TO THERMAL ENHANCED VARIATIONS WHERE 'A1' DIMENSION IS ALLOWED TO BE ZERO.

Change Record

If the change involves any words added or deleted (excluding deletion of accidentally repeated words), the change is included. Punctuation changes may not be included.

Initial Issue: A	Date: JUNE 1996	Item# : 11.11-430

Revision History

Issue: F	Date: Sept 2010	Item: 11.11-832
Location	Changed from:	Changed to:
Page 1, topview	 	 
Page 8, Note 3	Interlead flash...0.15 per side	Interlead flash...0.25 per side for body sizes = 3x3mm