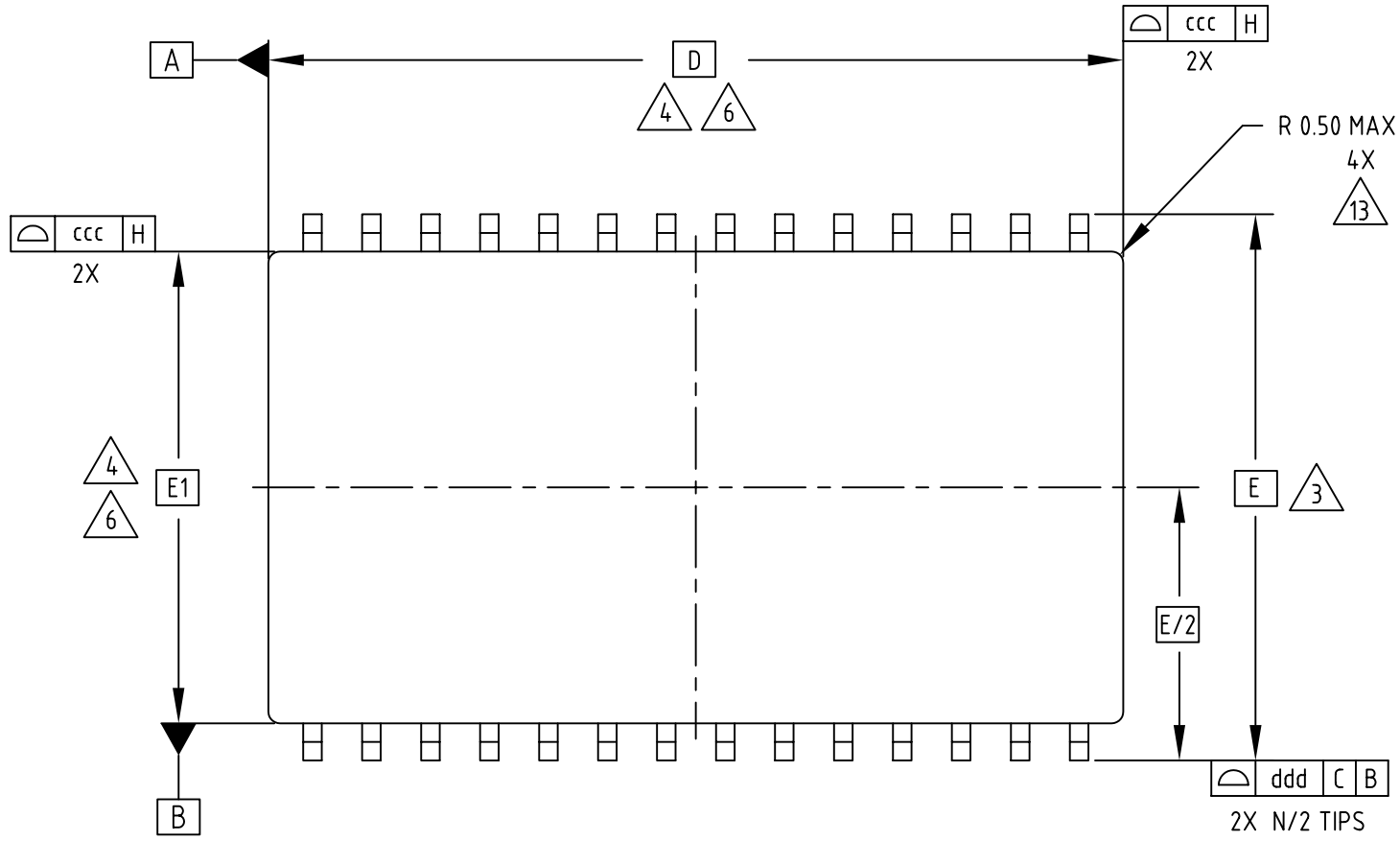
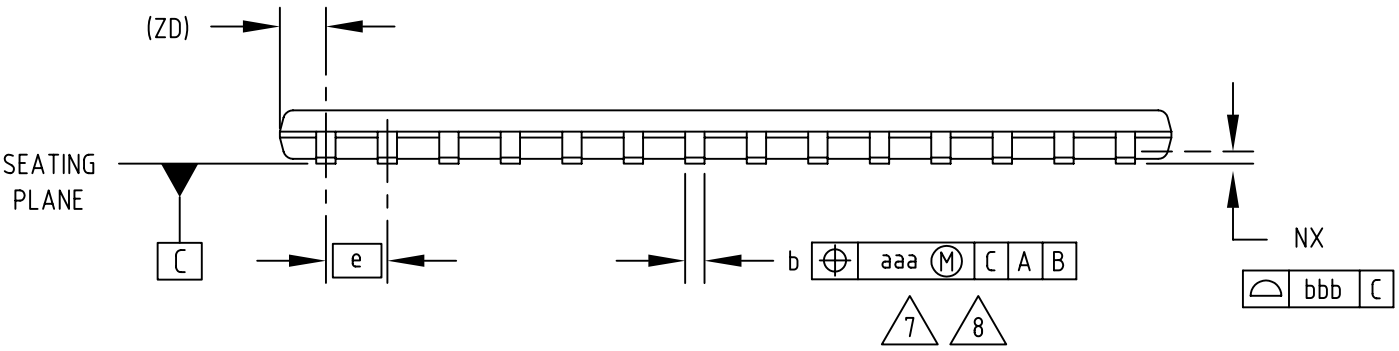
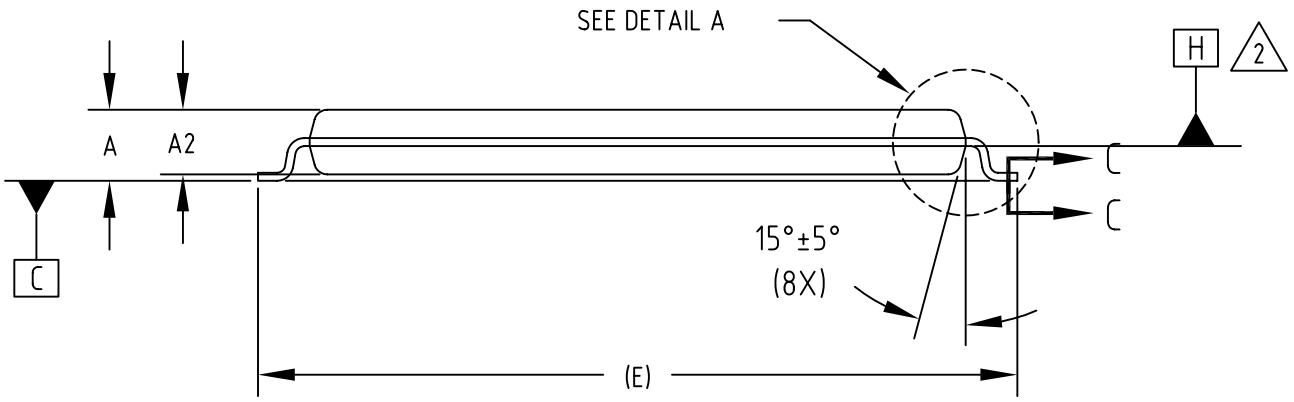
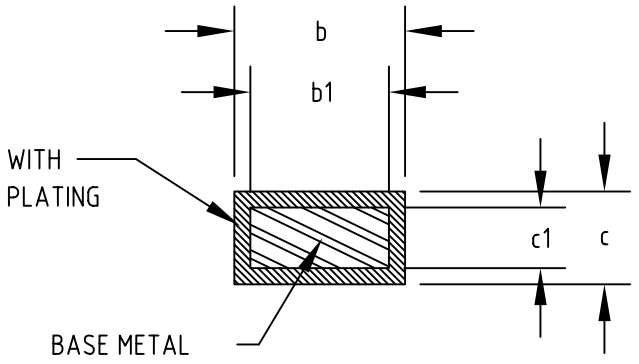


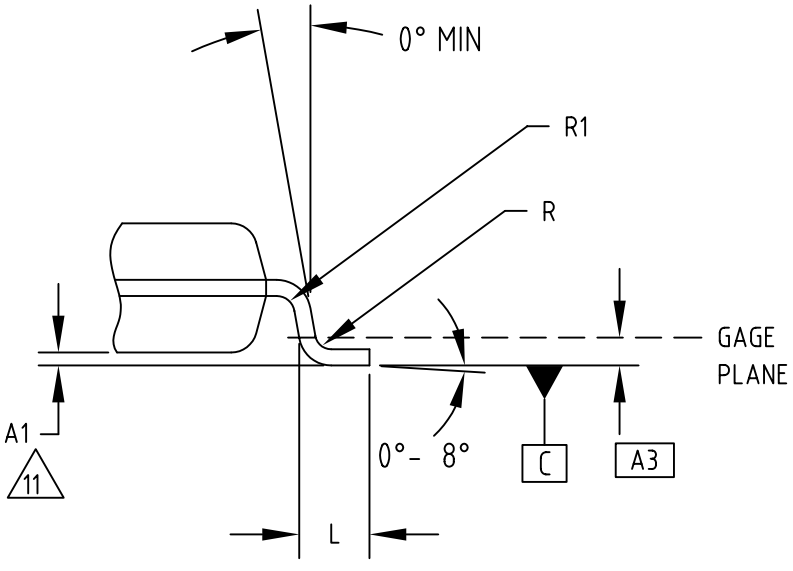


JEDEC SOLID STATE PRODUCT OUTLINES	THIS REGISTERED OUTLINE HAS BEEN PREPARED BY THE JEDEC JC-11 COMMITTEE AND REFLECTS A PRODUCT WITH ANTICIPATED USAGE IN THE ELECTRONICS INDUSTRY; CHANGES ARE LIKELY TO OCCUR.					
TITLE: THIN SMALL OUTLINE PACKAGE 8.89 mm BODY FAMILY		R-PDSO-G/TSOPII	ISSUE: A	DATE: JAN 2004	MO-249	PAGE: 1 OF 6





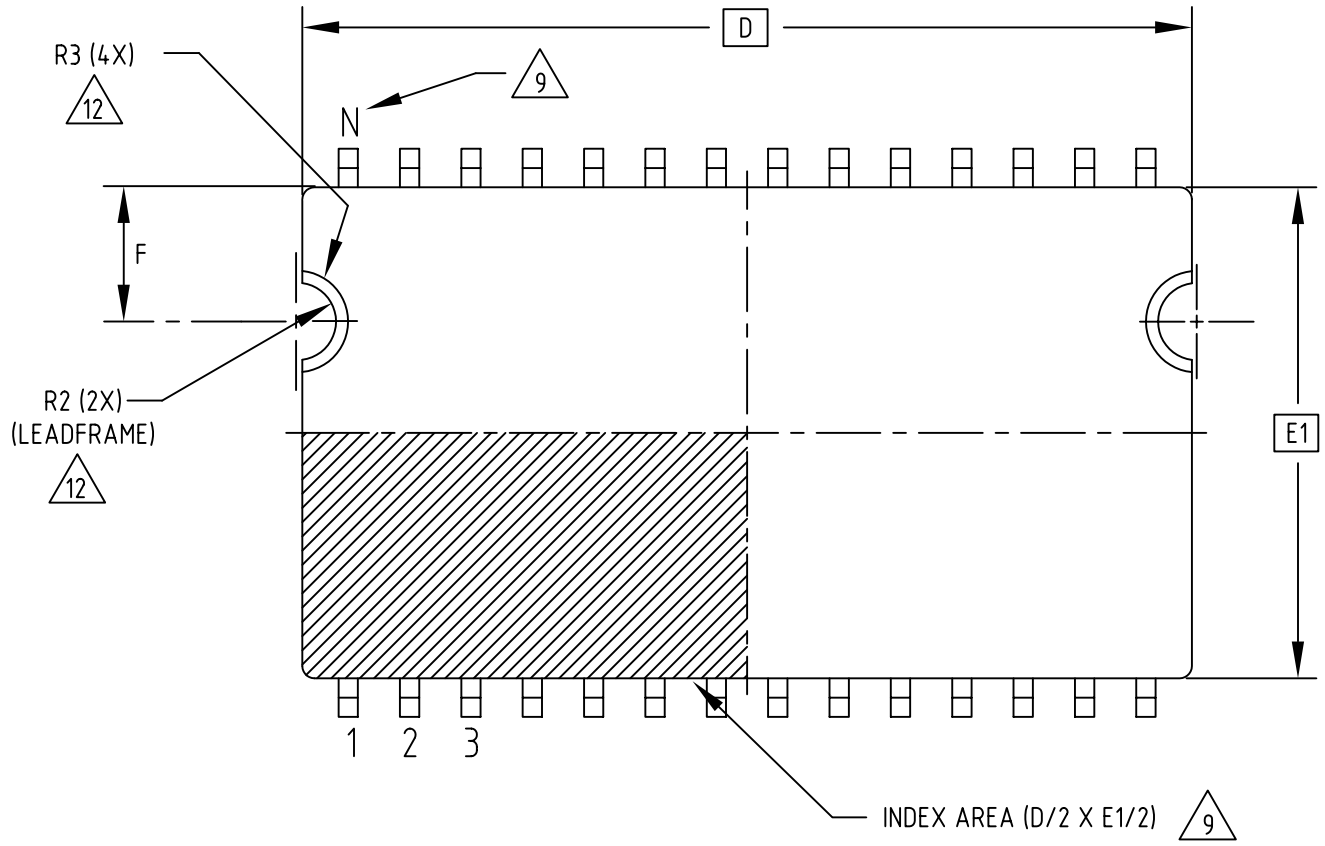
SECTION C-C



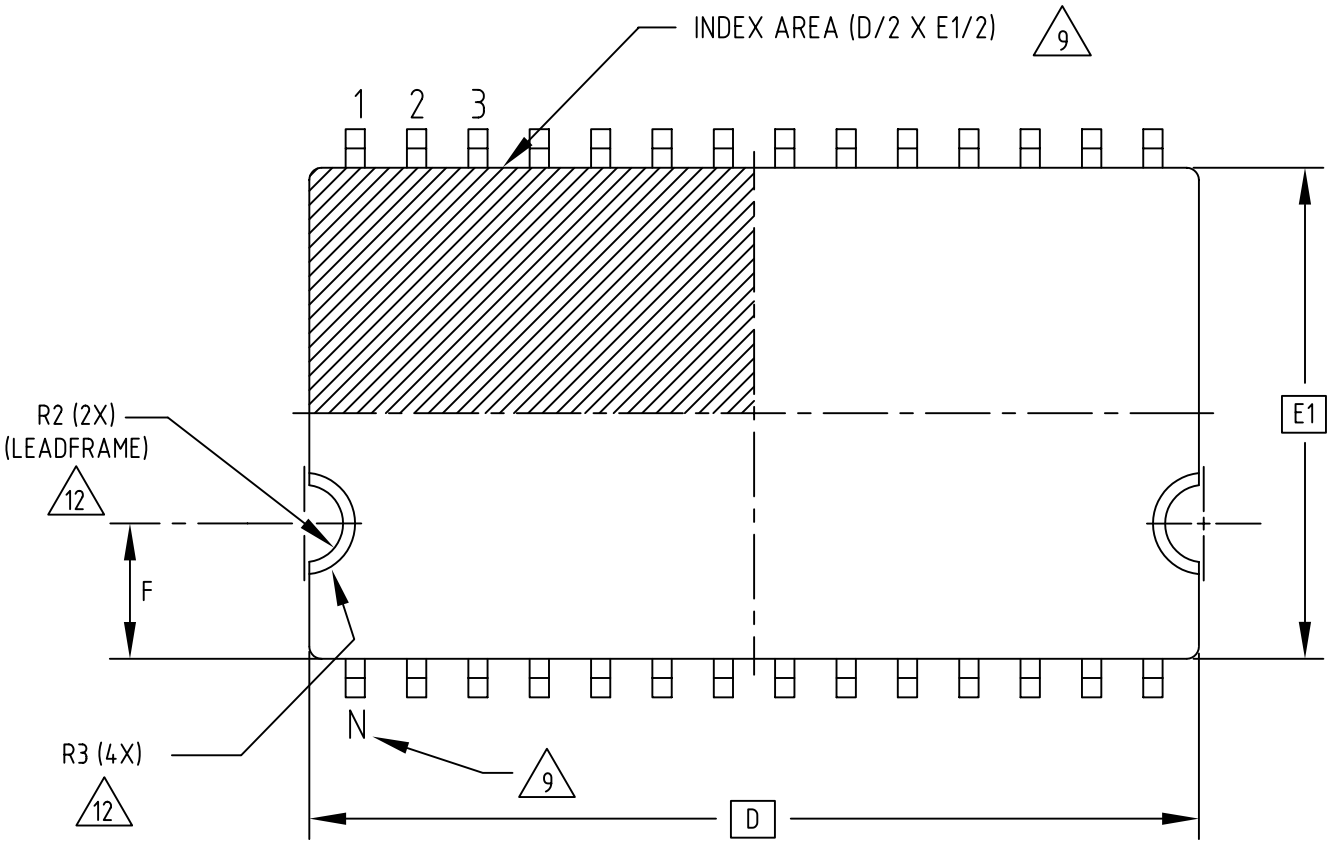
DETAIL A

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: THIN SMALL OUTLINE PACKAGE 8.89 mm BODY FAMILY	ISSUE: A	DATE: JAN 2004	MO-249	PAGE: 2 OF 6

LEAD NUMBERING - STANDARD LEAD FUNCTION



LEAD NUMBERING - MIRROR IMAGE LEAD FUNCTION



JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: THIN SMALL OUTLINE PACKAGE 8.89 mm BODY FAMILY	ISSUE: A	DATE: JAN 2004	MO-249	PAGE: 3 OF 6

SYMBOL	COMMON DIMENSIONS ALL DIMENSIONS IN MILLIMETERS			NOTE
	MIN	NOM	MAX	
A	---	---	1.20	
A1	0.05	---	0.15	11
A2	0.95	1.00	1.05	
A3	0.25 BASIC			
c	0.105	---	0.2	7
c1	0.09	0.125	0.135	7
E	10.49 BASIC			3
E1	8.89 BASIC			6
F	2.60	2.80	3.00	
L	0.40	0.50	0.60	
R	0.12	---	0.35	
R1	0.12	---	---	
R2	0.69	0.74	0.80	12
R3	---	---	1.05	12
NOTE	1, 5			
REF				
ISSUE	A			

TOLERANCE OF FORM AND POSITION		
SYMBOL		NOTES
ccc	0.13	
ddd	0.20	
REF.	11-668	
NOTES	1, 2	
ISSUE	A	

SYMBOL	VARIATIONS ALL DIMENSIONS IN MILLIMETERS												NOTE
	AA			AB			BA			BB			
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.22	---	0.38	0.13	---	0.23	0.30	---	0.45	0.17	---	0.27	7,8
b1	0.22	0.30	0.33	0.13	0.16	0.19	0.30	0.35	0.40	0.17	0.20	0.23	7
D	10.79 BASIC			10.79 BASIC			11.43 BASIC			11.43 BASIC			6
ZD	0.52 REF			0.40 REF			0.52 REF			0.47REF			
e	0.65 BASIC			0.40 BASIC			0.80 BASIC			0.50 BASIC			
aaa	0.12			0.07			0.20			0.08			
bbb	0.10			0.08			0.10			0.10			
N	32			52			28			44			10
REF	11-668			11-668			11-668			11-668			
ISSUE	A			A			A			A			

SYMBOL	VARIATIONS ALL DIMENSIONS IN MILLIMETERS												NOTE
	BC			CA			DA			DB			
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.13	---	0.23	0.22	---	0.38	0.30	---	0.45	0.22	---	0.38	7,8
b1	0.13	0.16	0.19	0.22	0.30	0.33	0.30	0.35	0.40	0.22	0.30	0.33	7
D	11.43 BASIC			12.06 BASIC			13.33 BASIC			13.33 BASIC			6
ZD	0.32 REF			0.51 REF			0.67 REF			0.49 REF			
e	0.40 BASIC			0.65 BASIC			0.80 BASIC			0.65 BASIC			
aaa	0.07			0.12			0.20			0.12			
bbb	0.08			0.10			0.10			0.10			
N	56			36			32			40			10
REF	11-668			11-668			11-668			11-668			
ISSUE	A			A			A			A			

SYMBOL	VARIATIONS ALL DIMENSIONS IN MILLIMETERS												NOTE
	DC			DD			EA						
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.17	---	0.27	0.13	---	0.23	0.13	---	0.23				7,8
b1	0.17	0.20	0.23	0.13	0.16	0.19	0.13	0.16	0.19				7
D	13.33 BASIC			13.33 BASIC			13.97 BASIC						6
ZD	0.42 REF			0.47 REF			0.39 REF						
e	0.50 BASIC			0.40 BASIC			0.40 BASIC						
aaa	0.08			0.07			0.07						
bbb	0.10			0.08			0.08						
N	52			64			68						10
REF	11-668			11-668			11-668						
ISSUE	A			A			A						

NOTES:

1 DIMENSIONING AND TOLERANCING CONFORM TO ASME Y14.5M-1994.

2 DATUM PLANE H COINCIDENT WITH BOTTOM OF LEAD, WHERE LEAD EXITS BODY.

3 TO BE DETERMINED AT SEATING PLANE C.

4 DATUMS A AND B TO BE DETERMINED AT DATUM H.

5 ALL DIMENSIONS IN MILLIMETERS.

6 DIMENSION D AND E1 ARE DETERMINED AT DATUM H. DIMENSION D DOES NOT INCLUDE MOLD PROTRUSIONS OR GATE BURRS. MOLD PROTRUSIONS AND GATE BURRS SHALL NOT EXCEED 0.15 mm PER SIDE. DIMENSION E1 DOES NOT INCLUDE INTERLEAD MOLD PROTRUSIONS. INTERLEAD MOLD PROTRUSIONS SHALL NOT EXCEED 0.25 mm PER SIDE.

7 THESE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.10 mm AND 0.25 mm FROM THE LEAD TIP.

8 DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION/INTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD TO BE WIDER THAN THE MAXIMUM b DIMENSION BY MORE THAN 0.13 mm. DAMBAR INTRUSION SHALL NOT CAUSE THE LEAD TO BE NARROWER THAN THE MINIMUM b DIMENSION BY MORE THAN 0.07 mm.

9 THE LEAD #1 IDENTIFIER AND LEAD NUMBERING CONVENTION SHALL CONFORM TO JESD 95-1 SPP-012. DETAILS OF LEAD #1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED. THE LEAD #1 IDENTIFIER MAY BE EITHER A MOLDED OR A MARKED FEATURE.

10 N IS THE MAXIMUM NUMBER OF LEADS.

11 A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY.

12 THIS ALIGNMENT FEATURE IS OPTIONAL.

13 EXACT DESIGN OF THIS FEATURE IS OPTIONAL.