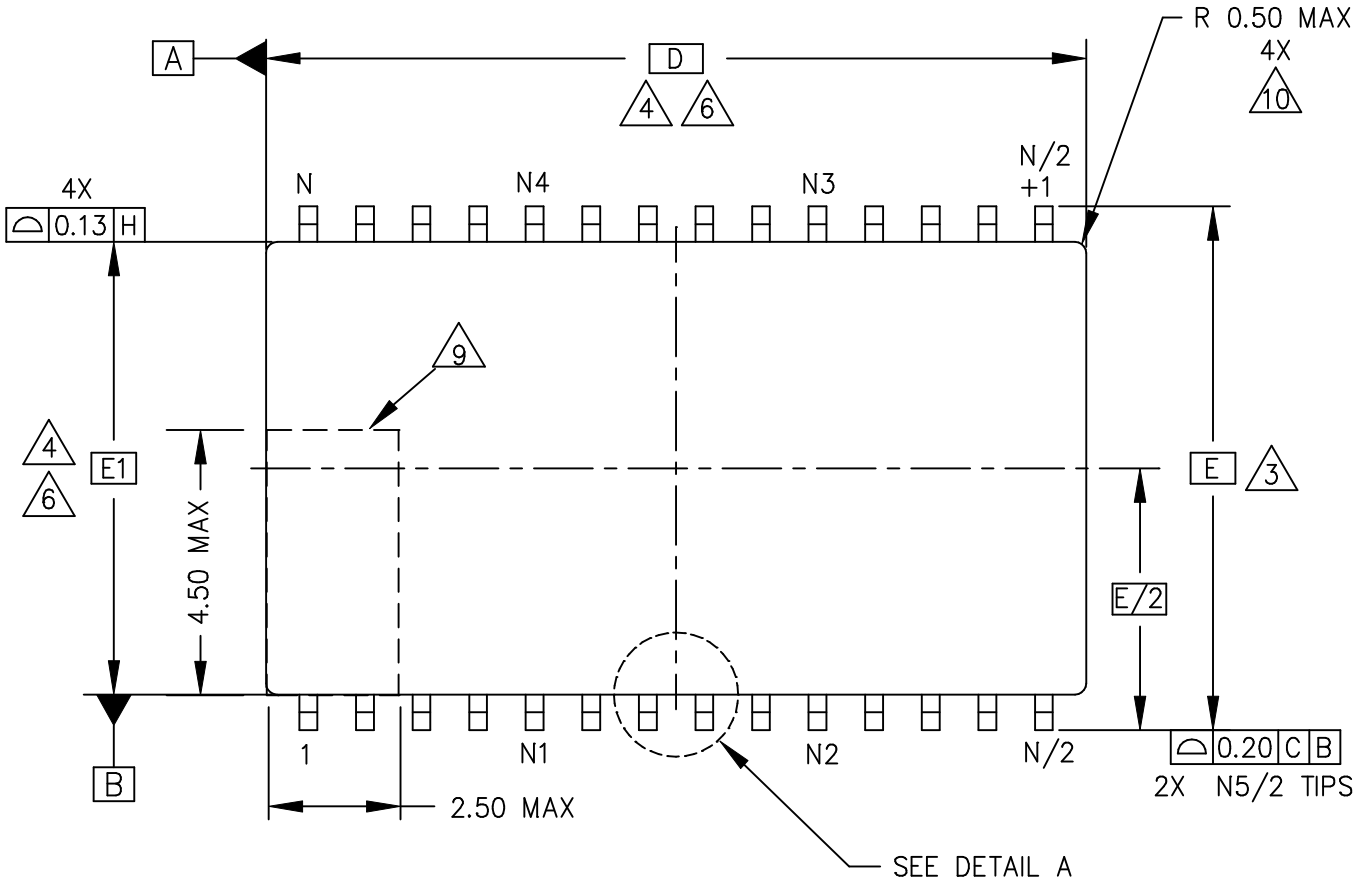
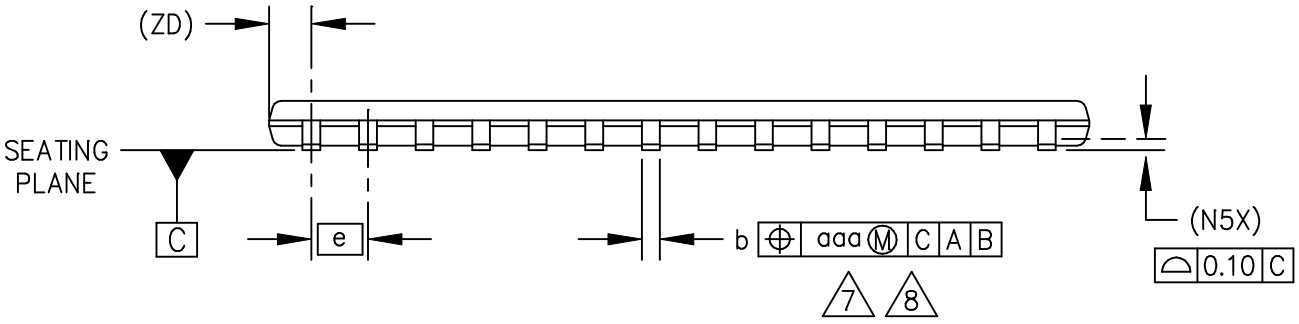
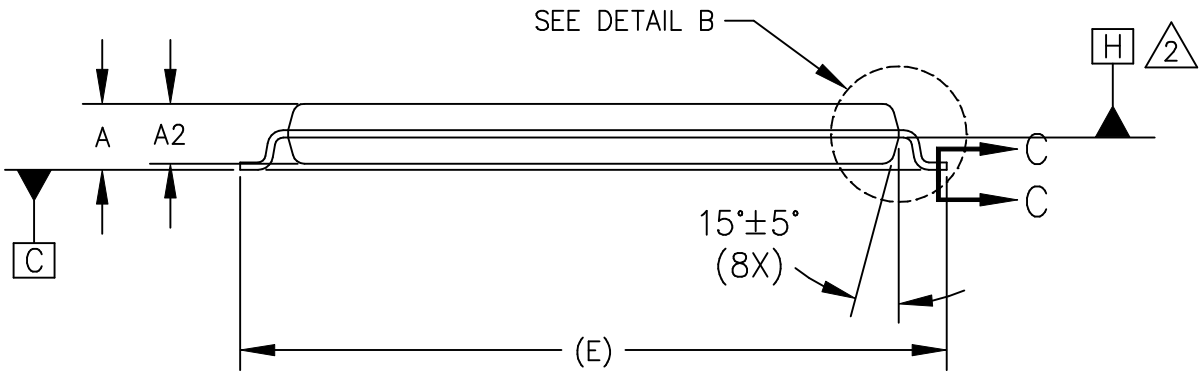


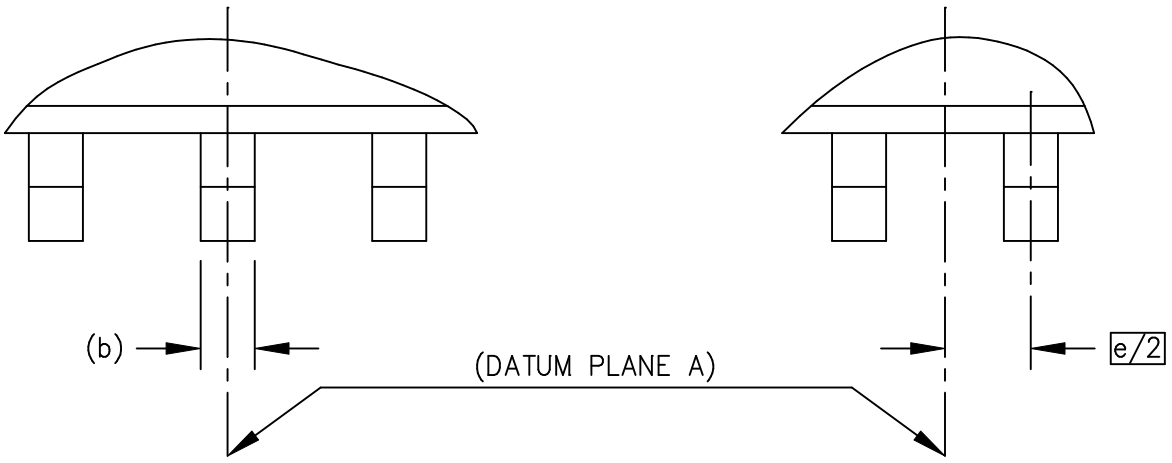


PATENT PENDING

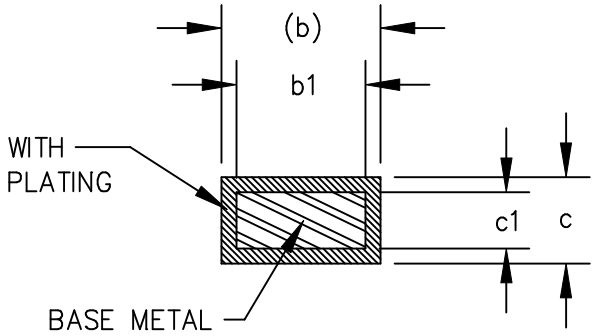
JEDEC SOLID STATE PRODUCT OUTLINES	THIS STANDARD OUTLINE HAS BEEN PREPARED BY JEDEC JC-11 COMMITTEE AND APPROVED BY THE JEDEC COUNCIL AND REFLECTS A PRODUCT WITH WIDE ACCEPTANCE IN ELECTRONICS INDUSTRY; CHANGES ARE NOT LIKELY TO OCCUR.

TITLE:		ISSUE:	DATE:		PAGE:
THIN SMALL OUTLINE PACKAGE FAMILY, TYPE II 7.62 mm BODY	R-PDSO-G/TSOPII	B	DEC 99	MS-025	1 OF 5

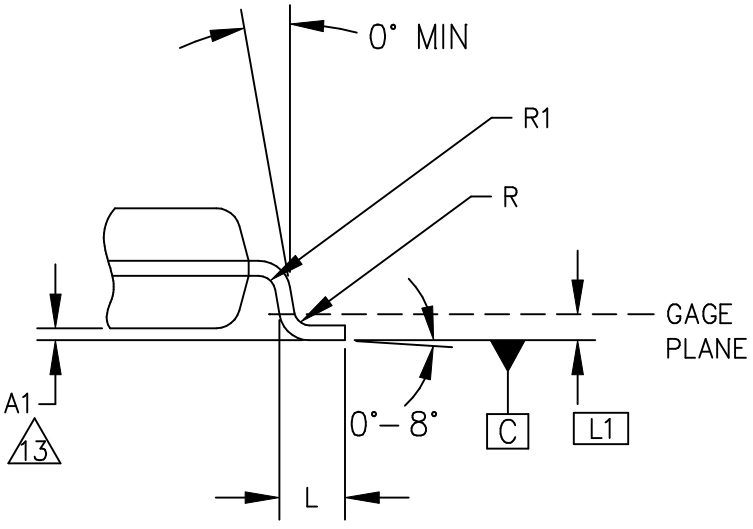




DETAIL A



SECTION C–C



DETAIL B

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: THIN SMALL OUTLINE PACKAGE FAMILY, TYPE II 7.62 mm BODY	ISSUE: B	DATE: DEC 99	MS–025	PAGE: 2 OF 5

SYMBOL	COMMON DIMENSIONS			NOTE
	ALL DIMENSIONS IN MILLIMETERS			
	MIN	NOM	MAX	
A	---	---	1.20	
A1	0.05	---	0.15	13
A2	0.95	1.00	1.05	
c	0.12	---	0.21	7
c1	0.12	0.15	0.16	7
E	9.22 BASIC			3
E1	7.62 BASIC			6
L	0.40	0.50	0.60	
L1	0.25 BASIC			
R	0.12	---	0.35	
R1	0.12	---	---	
NOTE	1, 5			
REF	11-399S, 11-518S			
ISSUE	B			

SYMBOL	VARIATIONS												NOTE
	ALL DIMENSIONS IN MILLIMETERS												
	AA			AB			AC			BA			
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.30	---	0.52	0.30	---	0.52	0.30	---	0.52	0.30	---	0.52	7,8
b1	0.30	0.40	0.45	0.30	0.40	0.45	0.30	0.40	0.45	0.30	0.40	0.45	7
D	17.14 BASIC			17.14 BASIC			17.14 BASIC			18.14 BASIC			6
ZD	0.95 REF			0.95 REF			0.805 REF			0.95 REF			
e	1.27 BASIC			1.27 BASIC			1.27 BASIC			1.27 BASIC			
aaa	0.20			0.20			0.20			0.20			
N	26			26			26			28			11
N1	5			6			---			---			12
N2	9			8			---			---			12
N3	18			19			---			---			12
N4	22			21			---			---			12
N5	20			24			26			28			12
REF	11-399S			11-399S			11-399S			11-399S			
ISSUE	A			A			A			A			

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: THIN SMALL OUTLINE PACKAGE FAMILY, TYPE II 7.62 mm BODY	ISSUE: B	DATE: DEC 99	MS-025	PAGE: 3 OF 5

SYMBOL	VARIATIONS												NOTE
	ALL DIMENSIONS IN MILLIMETERS												
	BB												
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b	0.30	---	0.52										7,8
b1	0.30	0.35	0.40										7
D	18.41 BASIC												6
ZD	0.805 REF												
e	0.80 BASIC												
aaa	0.20												
N	44												11
N1	---												12
N2	---												12
N3	---												12
N4	---												12
N5	44												12
REF	11-399S												
ISSUE	A												

SYMBOL													NOTE
	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	MIN	NOM	MAX	
b													
b1													
D													
ZD													
e													
aaa													
N													
N1													
N2													
N3													
N4													
N5													
REF													
ISSUE													

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 EXACT DESIGN OF THIS FEATURE IS OPTIONAL.

11 N IS THE MAXIMUM NUMBER OF LEADS.

12 FOR LEAD IDENTIFICATION PURPOSES ONLY. LEADS BETWEEN N1 AND N2 AND BETWEEN N3 AND N4 WILL BE OMITTED IF VALUES FOR N1, N2, N3 AND N4 ARE LISTED IN THE VARIATION TABLE. N5 IS THE ACTUAL LEAD COUNT.

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