

**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:
SHRINK SMALL OUTLINE PKG
FAMILY, 3.9MM WIDE BODY

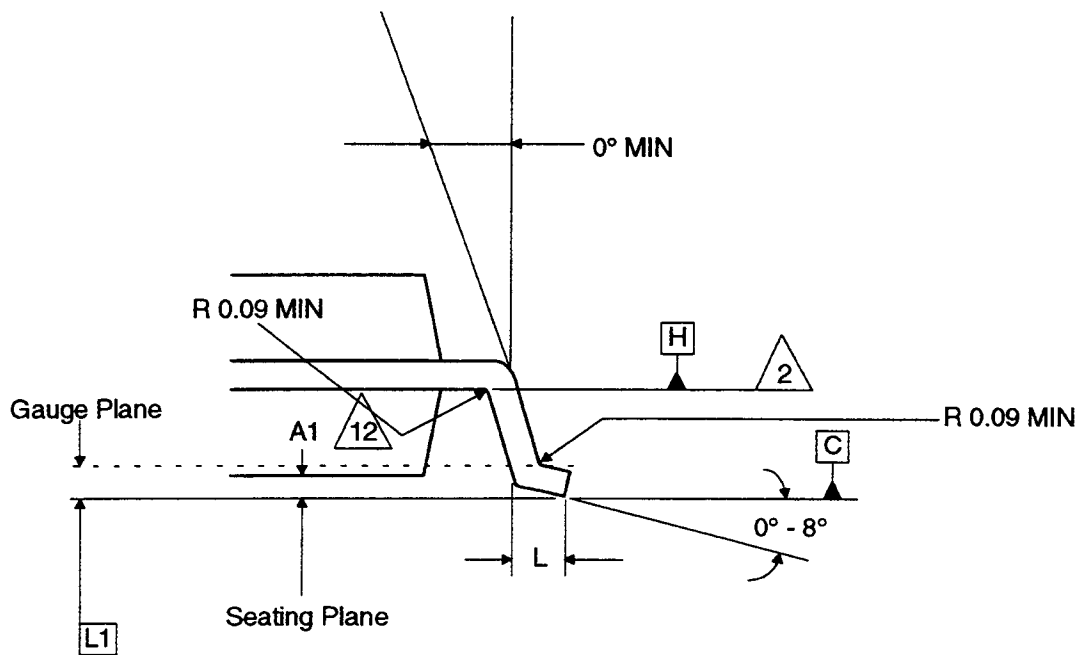
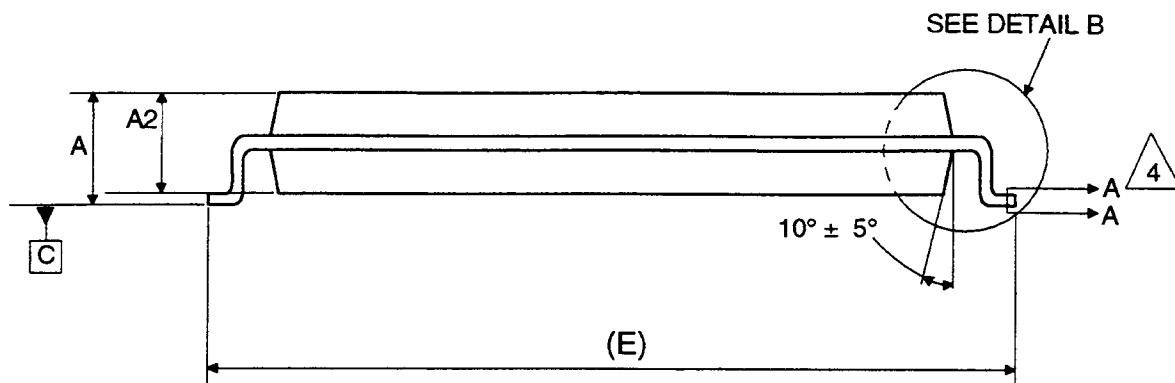
JESD-30 DESIGNATOR
R-PDSO-G/SSOP

ISSUE
C

DATE
4/97

MO-154

SHEET
1 OF 4



DETAIL B

NOTES

- 1 DIMENSIONS AND TOLERANCES CONFORM TO ASME Y14.5M-1994.
- 2 DATUM PLANE H COINCIDENT WITH BOTTOM OF LEAD, WHERE LEADS EXIT BODY.
- 3 TO BE DETERMINED AT SEATING PLANE, DATUM C.
- 4 CROSS SECTION A-A APPLIES 0.10 TO 0.25MM FROM THE LEAD TIP.
- 5 ALL DIMENSIONS IN MILLIMETER.
- 6 DIMENSION D DOES NOT INCLUDE MOLD PROTRUSIONS OR GATE BURRS. MOLD PROTRUSIONS AND GATE BURRS SHALL NOT EXCEED .15MM PER SIDE. DIMENSION E1 DOES NOT INCLUDE INTERLEAD MOLD PROTRUSIONS. INTERLEAD MOLD PROTRUSIONS SHALL NOT EXCEED .25MM PER SIDE.
- 7 TO BE DETERMINED AT PLANE H.
- 8 DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. DAMBAR PROTRUSION SHALL NOT CAUSE THE LEAD WIDTH TO EXCEED THE MAXIMUM b DIMENSION BY MORE THAN 0.08 MM. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND ADJACENT LEAD IS 0.07MM.
- 9 DETAILS OF PIN 1 IDENTIFIER ARE OPTIONAL BUT MUST BE LOCATED WITHIN THE ZONE INDICATED.
- 10 EXACT DESIGN OF THIS FEATURE IS OPTIONAL.
- 11 N IS THE MAXIMUM NUMBER OF LEADS.
- 12 A1 IS DEFINED AS THE DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT OF THE PACKAGE BODY.

JEDEC SOLID STATE PRODUCT OUTLINES	TITLE: SHRINK SMALL OUTLINE PKG FAMILY, 3.9MM WIDE BODY	ISSUE C	DATE 4/97	MO-154	SHEET 3 OF 4
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SYMBOL	VARIATIONS																			
	ALL DIMENSION IN MILLIMETERS																			
	AA			NOTE	AB			NOTE	BA			NOTE	BB			NOTE				
	MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX		MIN	NOM	MAX					
A	-	-	2.00	8	-	-	2.00	8	-	-	2.00	8	-	-	2.00	8				
A1	0.05	-	0.25		0.05	-	0.25		0.05	-	0.25		0.05	-	0.25					
A2	1.45	1.60	1.75		1.45	1.60	1.75		1.45	1.60	1.75		1.45	1.60	1.75					
b	0.13		0.23		0.13		0.23		0.17		0.27		0.17		0.27					
b1	0.13	0.16	0.19		0.13	0.16	0.19		0.17	0.20	0.23		0.17	0.20	0.23					
c	0.09		0.20	6	0.09		0.20	6	0.09		0.20	6	0.09		0.20	6				
c1	0.09	0.13	0.16		0.09	0.13	0.16		0.09	0.13	0.16		0.09	0.13	0.16					
D	8.55	8.65	8.75		9.80	9.90	10.00		8.55	8.65	8.75		9.80	9.90	10.00					
ZD	0.525 REF				12	0.35 REF			12	0.575 REF			12	0.20 REF			12			
E	5.80	6.00	6.20		3	5.80	6.00		6.20	3	5.80		6.00	6.20	3		5.80	6.00	6.20	3
E1	3.80	3.90	4.00	6	3.80	3.90	4.00	6	3.80	3.90	4.00	6	3.80	3.90	4.00	6				
L	0.50	0.60	0.75		0.50	0.60	0.75		0.50	0.60	0.75		0.50	0.60	0.75					
L1	0.25 BASIC				0.25 BASIC				0.25 BASIC				0.25 BASIC							
e	0.4 BASIC				0.4 BASIC				0.5 BASIC				0.5 BASIC							
aaa	-	-	0.07		-	-	0.07		-	-	0.08		-	-	0.08					
N		40		11		48		11		32		11	-	40		11				
NOTE		1,5			1,5			1,5			1,5									
REF.		11-367			11-367			11-402			11-402									
ISSUE		A			A			B			B									

	AC			NOTE
	MIN	NOM	MAX	
A	-	-	2.00	
A1	0.05	-	0.25	
A2	1.45	1.60	1.75	
b	0.13		0.23	8
b1	0.13	0.16	0.19	
c	0.09		0.20	
c1	0.09	0.13	0.16	
D	20.40	20.50	20.60	6
ZD	0.850 REF			12
E	5.80	6.00	6.20	3
E1	3.80	3.90	4.00	6
L	0.50	0.60	0.75	
L1	0.25 BASIC			
e	0.4 BASIC			
aaa	-	-	0.07	
N		96		11
NOTE		1,5		
REF.		11-459		
ISSUE		C		

	BC			NOTE
	MIN	NOM	MAX	
A	-	-	2.00	
A1	0.05	-	0.25	
A2	1.45	1.60	1.75	
b	0.17		0.27	8
b1	0.17	0.20	0.23	
c	0.09		0.20	
c1	0.09	0.13	0.16	
D	20.40	20.50	20.60	6
ZD	0.500 REF			12
E	5.80	6.00	6.20	3
E1	3.80	3.90	4.00	6
L	0.50	0.60	0.75	
L1	0.25 BASIC			
e	0.5 BASIC			
aaa		-	0.08	
N		80		11
NOTE		1,5		
REF.		11-459		
ISSUE		C		

JEDEC SOLID STATE PRODUCT OUTLINES		TITLE: SHRINK SMALL OUTLINE PKG FAMILY, 3.9MM WIDE BODY		ISSUE C	DATE 4/97	MO-154	SHEET 4 OF 4
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