

JEDEC
SOLID STATE
PRODUCT OUTLINES

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

TITLE PLASTIC SHRINK SMALL
OUTLINE PACKAGE (SSOP) FAMILY
0.025" PITCH 0.150" BODY WIDTH

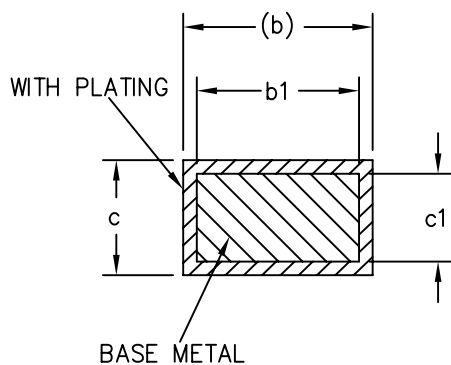
PACKAGE DESIGNATOR
R-PDSO/SSOP/SOIC

ISSUE
D

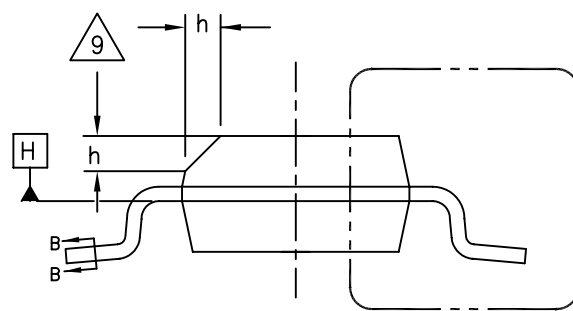
DATE
August
2008

MO-137

SHEET
1 OF 5

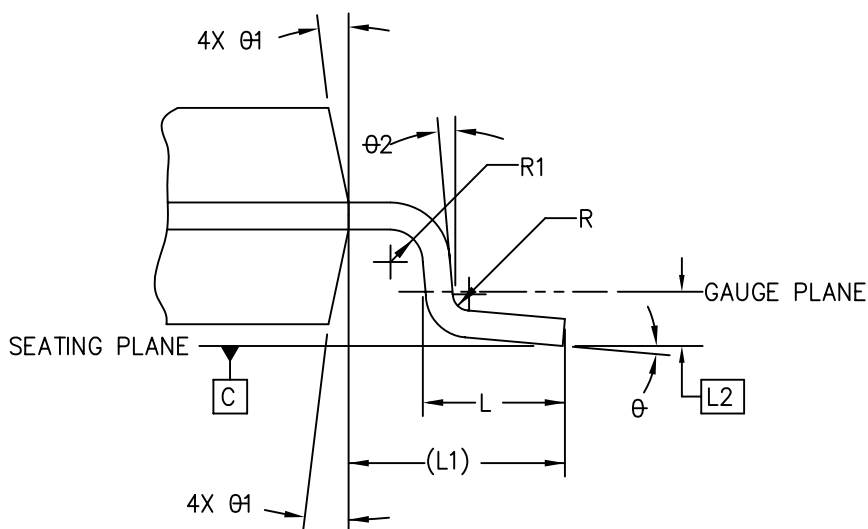


SECTION B-B

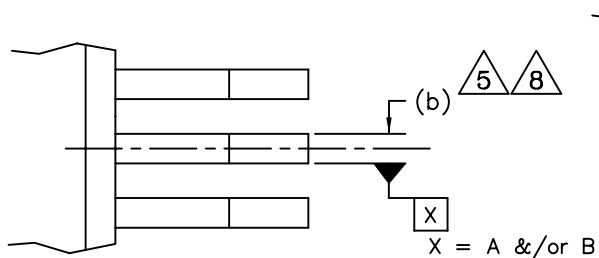


VIEW A-A
SHEET 1

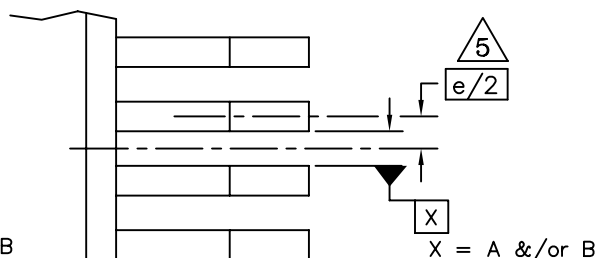
SEE VIEW C



VIEW C



ODD LEAD SIDES
TOPVIEW



EVEN LEAD SIDES
TOPVIEW

FIGURE 2

S Y M B O L	COMMON DIMENSIONS			N O T E
	MIN	NOM	MAX	
A2	0.049	—	—	
b	0.008	—	0.012	7,8
b1	0.008	0.010	0.011	7,8
c	0.004	—	0.010	7
c1	0.004	—	0.009	7
E	.236 BSC			
E1	.154 BSC			3,4
e	.025 BSC			
L	0.016	—	0.050	
L1	0.041 REF			
L2	0.010 BSC			
R	0.003	—	—	
R1	0.003	—	—	
h	0.010	—	0.020	9
θ	0°	—	8°	
θ1	5°	—	15°	
θ2	0°	—	—	
NOTES	1,2			
REF	11.11–739, 11.11–802			
ISSUE	D			

S Y M B O L	TOLERANCES OF FORM AND POSITION	N O T E
aaa	0.004	
bbb	0.008	
ccc	0.004	
ddd	0.007	
eee	0.004	
fff	0.006	
NOTES	1,2	
REF	11.11–739	
ISSUE	C	

VARIATION TABLES

THERMAL

VARIATION ► SYMBOL ▼		BA	BA-1	BB	BB-1	NOTE
A	MIN	---				10
	NOM	---				
	MAX	0.067				
A1	MIN	0.000				10
	NOM	---				
	MAX	0.004				
D BSC		0.193		0.193		3,4
D1	MIN	0.076	0.110	0.076	0.110	11
	NOM	0.090	0.130	0.090	0.130	
	MAX	0.104	0.150	0.104	0.150	
E2	MIN	0.082	0.076	0.082	0.076	11
	NOM	0.096	0.090	0.096	0.090	
	MAX	0.110	0.104	0.110	0.104	
N		14		16		6
NOTES		1,2				
REF		11.11-739				
ISSUE		C				

STANDARD

VARIATION ► SYMBOL ▼		AA	AB	AC	AD	AE	AF	NOTE
A	MIN	---						10
	NOM	---						
	MAX	0.069						
A1	MIN	0.004						
	NOM	---						
	MAX	0.0098						
D BSC		0.193	0.193	0.341	0.341	0.341	0.390	3,4
N		14	16	18	20	24	28	6
NOTES		3,4						
REF		11.11–739						
ISSUE		C						

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3 OF 5

NOTES:

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

2. DIMENSIONS IN INCHES (ANGLES IN DEGREES)



DIMENSION D DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH, PROTRUSIONS OR GATE BURRS SHALL NOT EXCEED 0.006 PER END. DIMENSION E1 DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.006 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM H



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.



DATUMS A & B TO BE DETERMINED AT DATUM H.

6 "N" IS THE MAXIMUM NUMBER OF TERMINAL POSITIONS FOR THE SPECIFIED PACKAGE LENGTH.



THE DIMENSIONS APPLY TO THE FLAT SECTION OF THE LEAD BETWEEN 0.004 TO 0.010 FROM THE LEAD TIP.



DIMENSION 'b' DOES NOT INCLUDE THE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.004 TOTAL IN EXCESS OF THE "b" DIMENSION AT MAXIMUM MATERIAL CONDITION. THE DAMBAR MAY NOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT.



THIS CHAMFER FEATURE IS OPTIONAL. IF IT IS NOT PRESENT, THEN A PIN 1 IDENTIFIER MUST BE LOCATED WITHIN THE INDEX AREA INDICATED



'A1' IS DEFINED AS THE VERTICAL DISTANCE FROM THE SEATING PLANE TO THE LOWEST POINT ON THE PACKAGE BODY EXCLUDING THE LID AND OR THERMAL ENHANCEMENT ON CAVITY DOWN PACKAGE CONFIGURATIONS.



'D1' AND 'E2' MINIMUM DIMENSIONS OF THERMALLY ENHANCED TYPES ARE VARIABLES DEPENDING ON DEVICE FUNCTION (DIE PADDLE SIZE). END USER SHOULD VERIFY ACTUAL SIZE OF EXPOSED THERMAL PAD FOR SPECIFIC DEVICE APPLICATION. THE THERMAL VARIATIONS IN THIS REGISTRATION ARE IN COMPLIANCE WITH PUB 95, SECTION 3.0, SPP-22.

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: August 1992	Item# : 11.11-327
B	May 2002	11.11-627

Revision History

Issue: C	Date: December 2005	Item: 11.11-739
Location	Changed from:	Changed to:
Page 1, Bottom view	Top View, Side View	Add Bottom View to show Exposed Thermal pad Zone
Page 3, Variation Tables	3-Non Thermal Options AA to AF	Add 4- Thermal Options BA, BA-1, BB, BB-1.

Issue: D	Date: August 2008	Item: 11.11-802
Location	Changed from:	Changed to:
Page 3, Common Dimensions	c and c1 Min: 0.006	0.004
	Delete c1 Nom: 0.008	