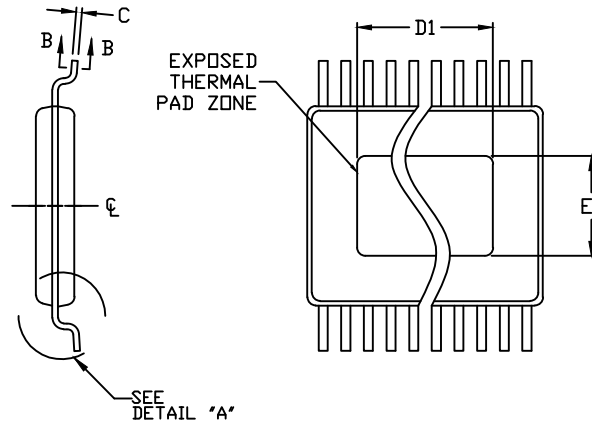
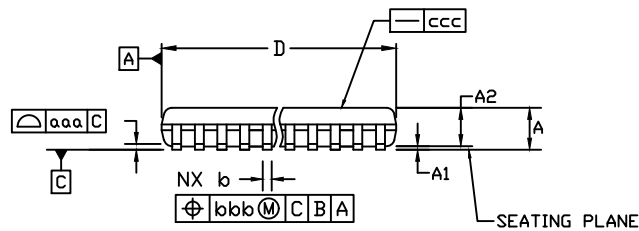


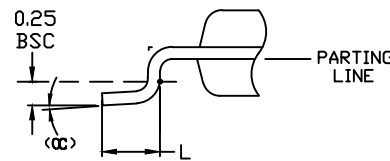
TOP VIEW



BOTTOM VIEW



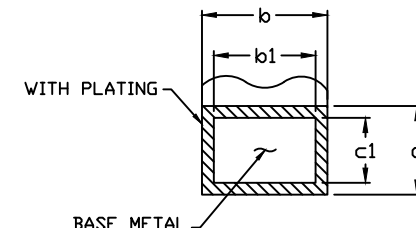
SIDE VIEW



DETAIL 'A'

SYMBOL	COMMON DIMENSIONS		
	MIN.	NOM.	MAX.
A	0.90	1.00	1.10
A <sub>1</sub>	0.05	---	0.15
A <sub>2</sub>	0.85	0.90	0.95
b	0.17	---	0.27
b <sub>1</sub>	0.17	0.20	0.23
c	0.09	---	0.20
c <sub>1</sub>	0.09	0.127	0.16
D	9.60	9.70	9.80
E	4.30	4.40	4.50
e	0.50 BSC		
H	6.40 BSC		
L	0.50	0.60	0.70
N	38		
α	0°	---	8°
aaa	0.076		
bbb	0.08		
ccc	0.05		
ddd	0.20		
PKG. CODE:	U38E-3, U38E-3C		

EXPOSED PAD VARIATION				
PKG. CODE	SYM.	MIN.	NOM.	MAX.
U38E-3	D1	6.40	6.50	6.60
(Stamped LF)	E1	3.10	3.20	3.30
U38E-3C	D1	6.40	6.65	6.75
(Etched LF)	E1	2.80	3.05	3.15



SECTION "B-B"

NOTE:

1. ALL DIMENSIONS ARE IN MILLIMETERS (ANGLES IN DEGREES).
2. DIMENSIONING & TOLERANCES PER ASME, Y14.5M-1994.
3. DIMENSION 'b' DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSIONS SHALL BE 0.07mm TOTAL IN EXCESS OF THE 'b' DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OF THE FOOT. MINIMUM SPACE BETWEEN PROTRUSION AND ADJACENT LEAD SHOULD 0.08mm FOR 0.50mm PITCH PKG.
4. MOLD FLASH OR PROTRUSIONS NOT TO EXCEED .15 mm PER SIDE.
5. MEETS JEDEC OUTLINE MO-153 VARIATION BD-1.
6. FOR EXPOSED PAD, MAXIMUM DIE THICKNESS IS 0.406mm.
7. 'N' REFER TO NUMBER OF LEADS
8. MARKING IS FOR PACKAGE ORIENTATION ONLY
9. MATERIAL MUST COMPLY WITH BANNED AND RESTRICTED SUBSTANCES SPEC # 10-0131.

-DRAWING NOT TO SCALE-



TITLE:  
PACKAGE OUTLINE, 38L TSSOP, 4.40MM BODY  
0.5MM PITCH, W/ EXPOSED PAD

APPROVAL KAI LIU	DOCUMENT CONTROL NO. 21-0714	REV. B	1/1
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