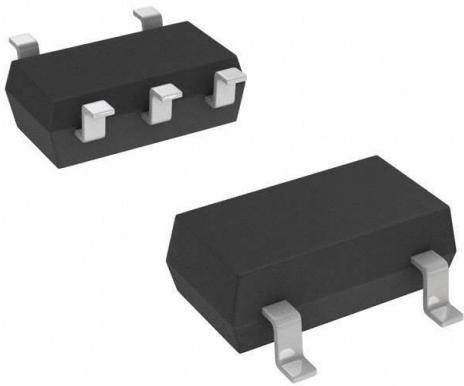


NC7SV32P5X Datasheet

www.digi-electronics.com



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	NC7SV32P5X-DG
Manufacturer	onsemi
Manufacturer Product Number	NC7SV32P5X
Description	IC GATE OR 1CH 2-INP SC70-5
Detailed Description	OR Gate IC 1 Channel SC-70-5



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

NC7SV32P5X

Series:

7SV

Logic Type:

OR Gate

Number of Inputs:

2

Voltage - Supply:

0.9V ~ 3.6V

Current - Output High, Low:

24mA, 24mA

Input Logic Level - High:

1.6V ~ 2V

Operating Temperature:

-40°C ~ 85°C

Supplier Device Package:

SC-70-5

Base Product Number:

7SV32

Manufacturer:

onsemi

Product Status:

Active

Number of Circuits:

1

Features:

-

Current - Quiescent (Max):

900 nA

Input Logic Level - Low:

0.7V ~ 0.8V

Max Propagation Delay @ V, Max CL:

3.3ns @ 3V, 30pF

Mounting Type:

Surface Mount

Package / Case:

5-TSSOP, SC-70-5, SOT-353

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

TinyLogic ULP-A 2-Input OR Gate

NC7SV32

The NC7SV32 is a single 2-Input OR Gate in tiny footprint packages. The device is designed to operate for $V_{CC} = 0.9\text{ V}$ to 3.6 V .

Features

- Designed for 0.9 V to 3.6 V V_{CC} Operation
- 1.6 ns t_{PD} at 3.3 V (Typ)
- Inputs/Outputs Over-Voltage Tolerant up to 3.6 V
- I_{OFF} Supports Partial Power Down Protection
- Source/Sink 24 mA at 3.3 V
- Available in SC-88A and MicroPak™ Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

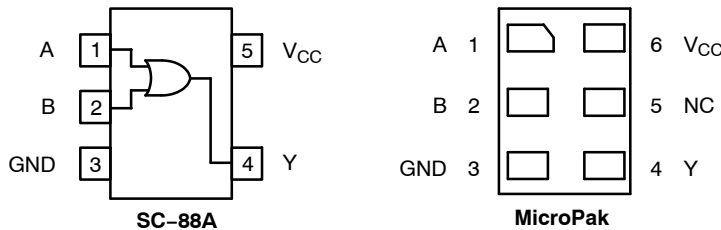


Figure 1. Pinout Diagrams (Top Views)

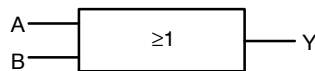


Figure 2. Logic Symbol

PIN ASSIGNMENT

Pin	SC-88A	MicroPak
1	A	A
2	B	B
3	GND	GND
4	Y	Y
5	V_{CC}	N.C.
6	-	V_{CC}

N.C. = No Connect

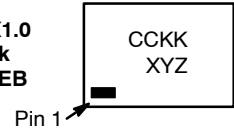
FUNCTION TABLE

Input		Output $Y = A + B$
A	B	Y
L	L	L
L	H	H
H	L	H
H	H	H

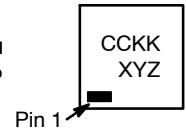
MARKING DIAGRAMS



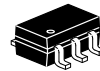
SIP6 1.45X1.0
MicroPak
CASE 127EB



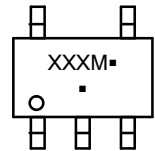
UDFN6
MicroPak2™
CASE 517DP



CC = Specific Device Code
KK = 2-Digit Lot Run Traceability Code
XY = 2-Digit Date Code
Z = Assembly Plant Code



SC-88A
CASE 419AC



XXX = Specific Device Code
M = Date Code
▪ = Pb-Free Package

ORDERING INFORMATION

See detailed ordering, marking and shipping information on page 6 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 6.

NC7SV32**MAXIMUM RATINGS**

Symbol	Characteristics	Value	Unit
V _{CC}	DC Supply Voltage	-0.5 to +4.3	V
V _{IN}	DC Input Voltage	-0.5 to +4.3	V
V _{OUT}	DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode (V _{CC} = 0 V)	-0.5 to V _{CC} + 0.5 -0.5 to +4.3 -0.5 to +4.3	V
I _{IK}	DC Input Diode Current V _{IN} < GND	-50	mA
I _{OK}	DC Output Diode Current V _{OUT} < GND	-50	mA
I _{OUT}	DC Output Source/Sink Current	±50	mA
I _{CC} or I _{GND}	DC Supply Current per Supply Pin or Ground Pin	±50	mA
T _{STG}	Storage Temperature Range	-65 to +150	°C
T _L	Lead Temperature, 1 mm from Case for 10 Seconds	260	°C
T _J	Junction Temperature Under Bias	+150	°C
θ _{JA}	Thermal Resistance (Note 2) SC-88A MicroPak	377 154	°C/W
P _D	Power Dissipation in Still Air SC-88A MicroPak	332 812	mW
MSL	Moisture Sensitivity	Level 1	-
F _R	Flammability Rating Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
V _{ESD}	ESD Withstand Voltage (Note 3) Charged Device Model	Human Body Model 4000 2000	V
I _{Latchup}	Latchup Performance (Note 4)	±100	mA

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.

1. Applicable to devices with outputs that may be tri-stated.
2. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow per JESD51-7.
3. HBM tested to EIA / JESD22-A114-A. CDM tested to JESD22-C101-A. JEDEC recommends that ESD qualification to EIA/JESD22-A115A (Machine Model) be discontinued.
4. Tested to EIA/JESD78 Class II.

NC7SV32

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Max	Unit
V_{CC}	Positive DC Supply Voltage	0.9	3.6	V
V_{IN}	DC Input Voltage	0	3.6	V
V_{OUT}	DC Output Voltage Active-Mode (High or Low State) Tri-State Mode (Note 1) Power-Down Mode ($V_{CC} = 0$ V)	0 0 0	V_{CC} 3.6 3.6	
T_A	Operating Temperature Range	-40	+85	°C
t_r, t_f	Input Transition Rise and Fall Time	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$		ns/V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Condition	V_{CC} (V)	$T_A = 25^\circ\text{C}$			$T_A = -40^\circ\text{C to } +85^\circ\text{C}$		Unit
				Min	Typ	Max	Min	Max	
V_{IH}	High-Level Input Voltage		0.9	-	0.5	-	-	-	V
			1.1 to 1.3	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			1.4 to 1.6	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			1.65 to 1.95	$0.65 \times V_{CC}$	-	-	$0.65 \times V_{CC}$	-	
			2.3 to <2.7	1.6	-	-	1.6	-	
			2.7 to 3.6	2.0	-	-	2.0	-	
V_{IL}	Low-Level Input Voltage		0.9	-	0.5	-	-	-	V
			1.1 to 1.3	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			1.4 to 1.6	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			1.65 to 1.95	-	-	$0.35 \times V_{CC}$	-	$0.35 \times V_{CC}$	
			2.3 to <2.7	-	-	0.7	-	0.7	
			2.7 to 3.6	-	-	0.8	-	0.8	
V_{OH}	High-Level Output Voltage	$V_{IN} = V_{IH}$ or V_{IL}							V
		$I_{OH} = -100 \mu\text{A}$	0.9	-	$V_{CC} - 0.1$	-	-	-	
			1.1 to 1.3	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-	
			1.4 to 1.6	$V_{CC} - 0.1$	-	-	$V_{CC} - 0.1$	-	
			1.65 to 1.95	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
			2.3 to <2.7	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
			2.7 to 3.6	$V_{CC} - 0.2$	-	-	$V_{CC} - 0.2$	-	
		$I_{OH} = -2 \text{ mA}$	1.1 to 1.3	$0.75 \times V_{CC}$	-	-	$0.75 \times V_{CC}$	-	
			1.4 to 1.6	$0.75 \times V_{CC}$	-	-	$0.75 \times V_{CC}$	-	
		$I_{OH} = -4 \text{ mA}$	1.65 to 1.95	1.25	-	-	1.25	-	
			2.3 to <2.7	2.0	-	-	2.0	-	
		$I_{OH} = -6 \text{ mA}$	2.3 to <2.7	1.8	-	-	1.8	-	
			2.7 to 3.6	2.2	-	-	2.2	-	
		$I_{OH} = -12 \text{ mA}$	2.3 to <2.7	1.7	-	-	1.7	-	
			2.7 to 3.6	2.4	-	-	2.4	-	
$I_{OH} = -18 \text{ mA}$	2.7 to 3.6	2.2	-	-	2.2	-			
$I_{OH} = -24 \text{ mA}$	2.7 to 3.6	2.2	-	-	2.2	-			

NC7SV32

DC ELECTRICAL CHARACTERISTICS (continued)

Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -40°C to +85°C		Unit	
				Min	Typ	Max	Min	Max		
V _{OL}	Low-Level Output Voltage	V _{IN} = V _{IH} or V _{IL}							V	
		I _{OL} = 100 μA	0.9	-	0.1	-	-	-		-
			1.1 to 1.3	-	-	0.1	-	0.1		-
			1.4 to 1.6	-	-	0.1	-	0.1		-
			1.65 to 1.95	-	-	0.2	-	0.2		-
			2.3 to < 2.7	-	-	0.2	-	0.2		-
			2.7 to 3.6	-	-	0.2	-	0.2		-
		I _{OL} = 2 mA	1.1 to 1.3	-	-	0.25 x V _{CC}	-	0.25 x V _{CC}		-
			1.4 to 1.6	-	-	0.25 x V _{CC}	-	0.25 x V _{CC}		-
		I _{OL} = 4 mA	1.65 to 1.95	-	-	0.3	-	0.3		-
			2.3 to < 2.7	-	-	0.4	-	0.4		-
		I _{OL} = 6 mA	2.7 to 3.6	-	-	0.4	-	0.4		-
			2.3 to < 2.7	-	-	0.6	-	0.6		-
I _{OL} = 12 mA	2.7 to 3.6	-	-	0.4	-	0.4	-			
	2.3 to < 2.7	-	-	0.6	-	0.6	-			
I _{OL} = 18 mA	2.7 to 3.6	-	-	0.4	-	0.4	-			
	2.3 to < 2.7	-	-	0.6	-	0.6	-			
I _{OL} = 24 mA	2.7 to 3.6	-	-	0.55	-	0.55	-			
	2.3 to < 2.7	-	-	0.6	-	0.6	-			
I _{IN}	Input Leakage Current	V _{IN} = 0 V to 3.6 V	0.9 to 3.6	-	-	±0.1	-	±0.5	μA	
I _{OFF}	Power Off Leakage Current	V _{IN} = 0 V to 3.6 V or V _{OUT} = 0 V to 3.6 V	0	-	-	0.5	-	0.5	μA	
I _{CC}	Quiescent Supply Current	V _{IN} = V _{CC} or GND	0.9 to 3.6	-	-	0.9	-	0.9	μA	

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

AC ELECTRICAL CHARACTERISTICS

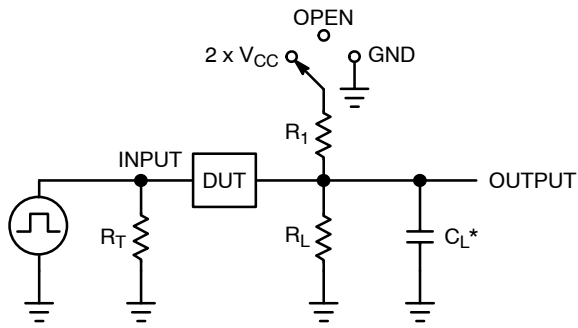
Symbol	Parameter	Condition	V _{CC} (V)	T _A = 25°C			T _A = -40°C to +85°C		Unit
				Min	Typ	Max	Min	Max	
t _{PLH} , t _{PHL}	Propagation Delay, (A or B) to Y (Figures 3 and 4)	R _L = 1 MΩ, C _L = 15 pF	0.9	-	15.7	-	-	-	ns
		R _L = 2 kΩ, C _L = 15 pF	1.1 to 1.3	-	6.7	15.8	-	18.6	
			1.4 to 1.6	-	3.7	8.7	-	9.7	
			1.65 to 1.95	-	2.7	6.0	-	6.8	
		R _L = 500 Ω, C _L = 30 pF	2.3 to 2.7	-	1.9	4.1	-	4.7	
			2.7 to 3.6	-	1.6	3.3	-	4.0	

CAPACITIVE CHARACTERISTICS

Symbol	Parameter	Test Condition	Typical (T _A = 25°C)	Unit
C _{IN}	Input Capacitance	V _{CC} = 0 V	2.0	pF
C _{PD}	Power Dissipation Capacitance (Note 5)	f = 10 MHz, V _{CC} = 0.9 to 3.6 V, V _{IN} = 0 V or V _{CC}	8.0	pF

5. C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained by the equation I_{CC(OPR)} = C_{PD} • V_{CC} • f_{in} + I_{CC}. C_{PD} is used to determine the no-load dynamic power consumption: P_D = C_{PD} • V_{CC}² • f_{in} + I_{CC} • V_{CC}.

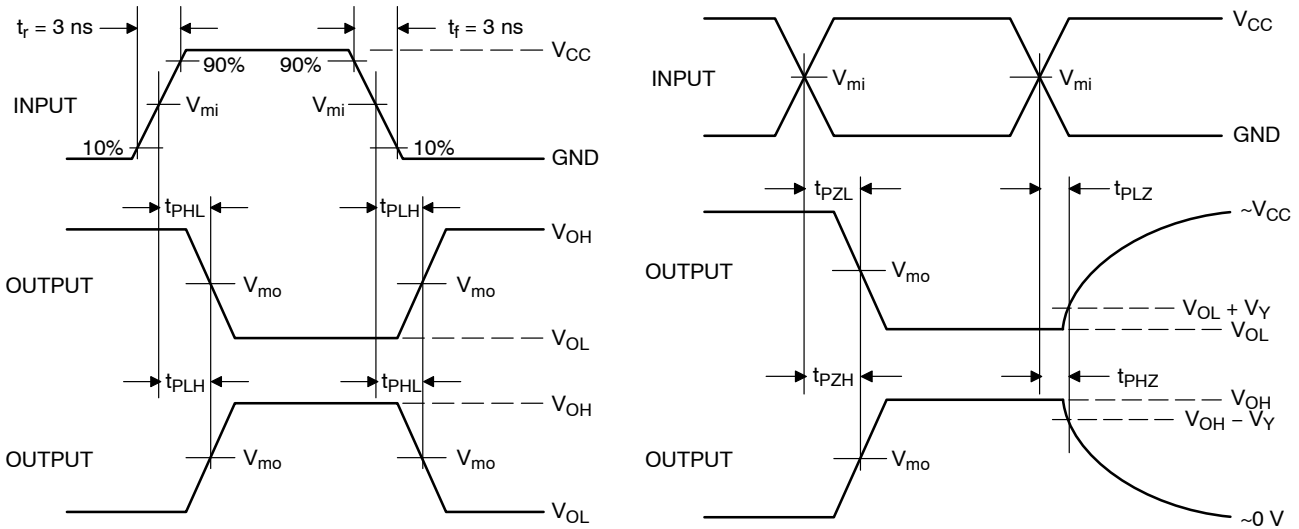
NC7SV32



C_L includes probe and jig capacitance
 R_T is Z_{OUT} of pulse generator (typically 50 Ω)
 $f = 1$ MHz

Test	Switch Position
t_{PLH} / t_{PHL}	Open
t_{PLZ} / t_{PZL}	$2 \times V_{CC}$
t_{PHZ} / t_{PZH}	GND

Figure 3. Test Circuit



V_{CC}, V	V_{mi}, V	V_{mo}, V	V_Y, V
0.9	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.1 to 1.3	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.4 to 1.6	$V_{CC} / 2$	$V_{CC} / 2$	0.1
1.65 to 1.95	$V_{CC} / 2$	$V_{CC} / 2$	0.15
2.3 to 2.7	$V_{CC} / 2$	$V_{CC} / 2$	0.15
3.0 to 3.6	1.5	1.5	0.3

Figure 4. Switching Waveforms

NC7SV32**ORDERING INFORMATION**

Device	Package	Marking	Pin 1 Orientation (See below)	Shipping [†]
NC7SV32P5X	SC-88A	V32	Q4	3000 / Tape & Reel

DISCONTINUED (Note 6)

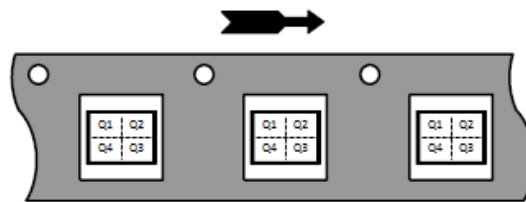
NC7SV32L6X	MicroPak	G6	Q4	5000 / Tape & Reel
NC7SV32FHX	MicroPak2	G6	Q4	5000 / Tape & Reel
NC7SV32FHX-L22780	MicroPak2	G6	Q4	5000 / Tape & Reel

[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

6. **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.

PIN 1 ORIENTATION IN TAPE AND REEL

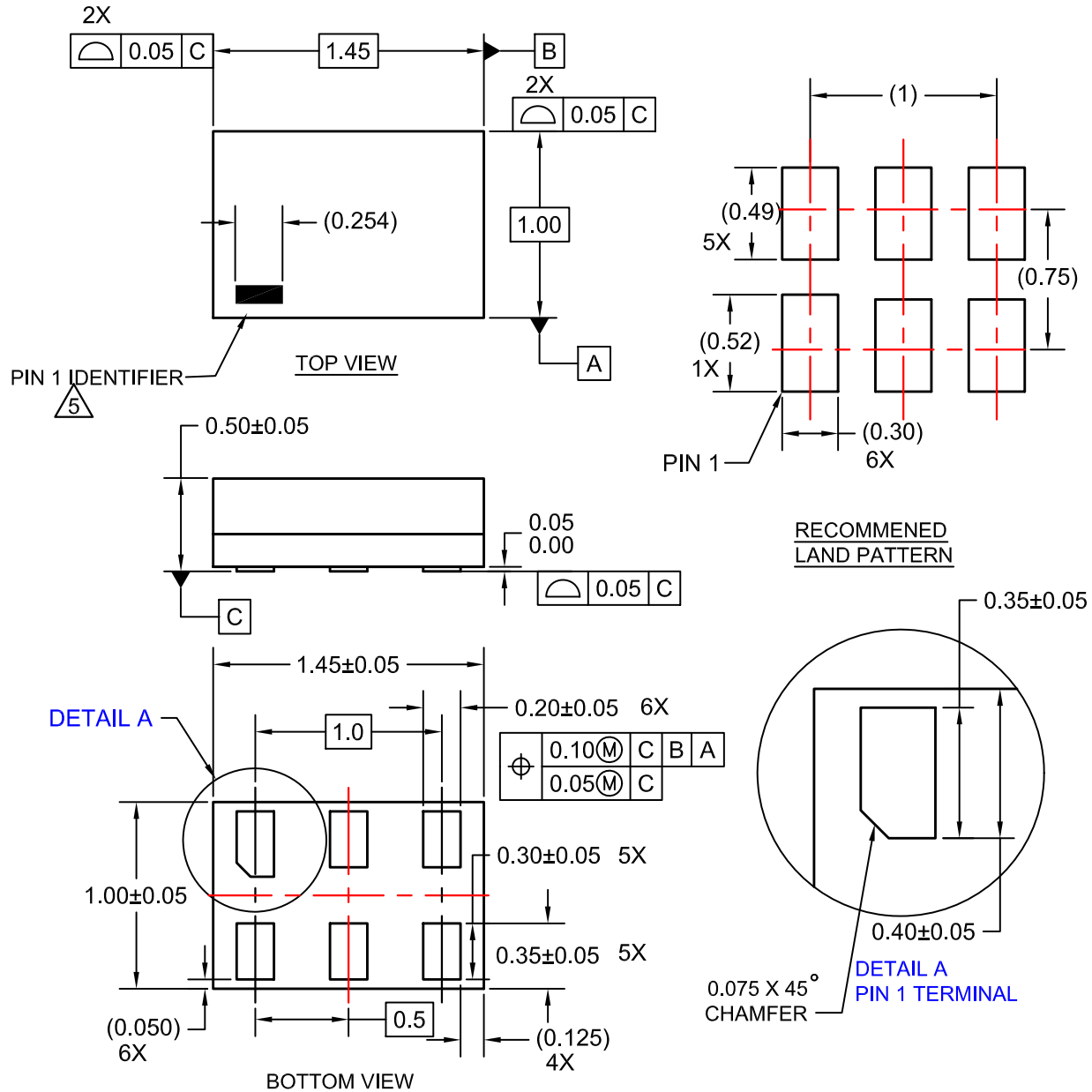
Direction of Feed



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SIP6 1.45X1.0
CASE 127EB
ISSUE O

DATE 31 AUG 2016



NOTES:

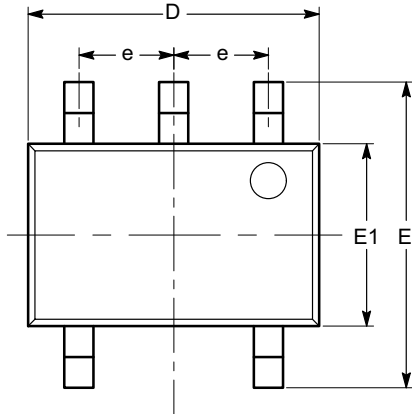
1. CONFORMS TO JEDEC STANDARD MO-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-2009
4. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

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DESCRIPTION:	SIP6 1.45X1.0	PAGE 1 OF 1

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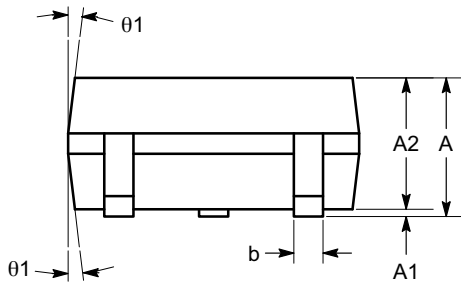
SC-88A (SC-70 5 Lead), 1.25x2
CASE 419AC-01
ISSUE A

DATE 29 JUN 2010

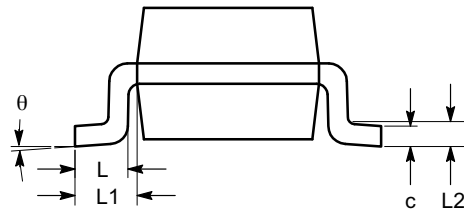


TOP VIEW

SYMBOL	MIN	NOM	MAX
A	0.80		1.10
A1	0.00		0.10
A2	0.80		1.00
b	0.15		0.30
c	0.10		0.18
D	1.80	2.00	2.20
E	1.80	2.10	2.40
E1	1.15	1.25	1.35
e	0.65 BSC		
L	0.26	0.36	0.46
L1	0.42 REF		
L2	0.15 BSC		
θ	0°		8°
θ_1	4°		10°



SIDE VIEW



END VIEW

Notes:

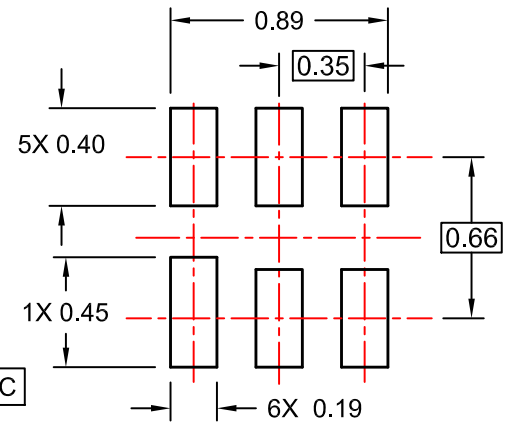
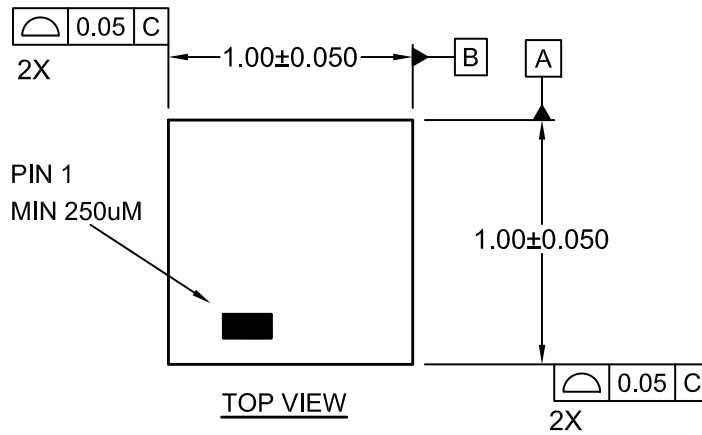
- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-203.

DOCUMENT NUMBER:	98AON34260E	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
DESCRIPTION:	SC-88A (SC-70 5 LEAD), 1.25X2	PAGE 1 OF 1

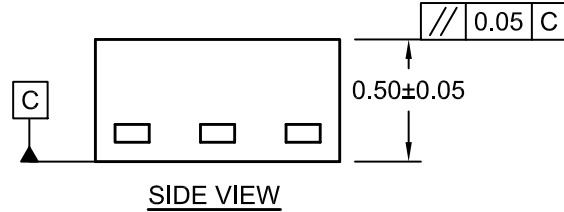
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UDFN6 1.0X1.0, 0.35P
CASE 517DP
ISSUE O

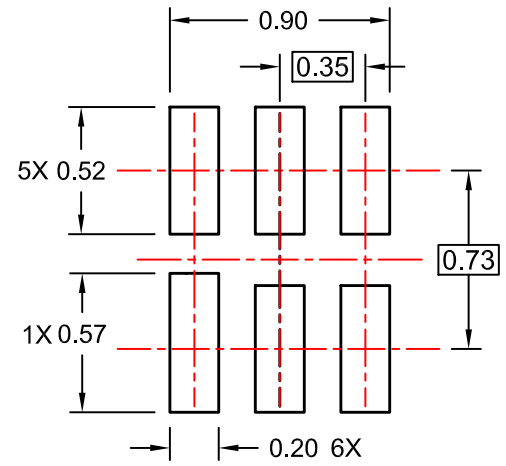
DATE 31 AUG 2016



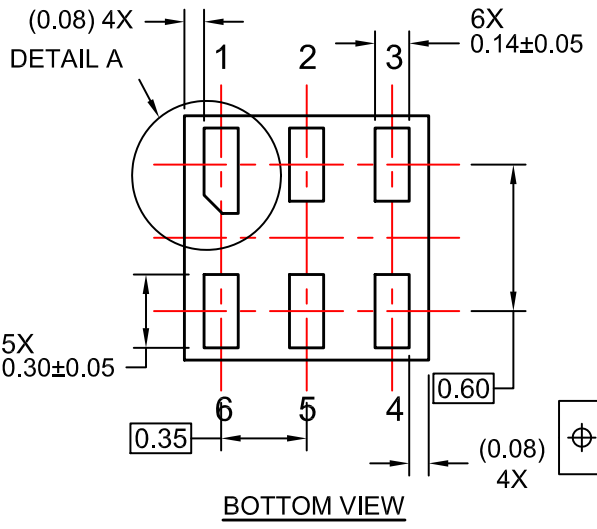
RECOMMENDED LAND PATTERN FOR SPACE CONSTRAINED PCB



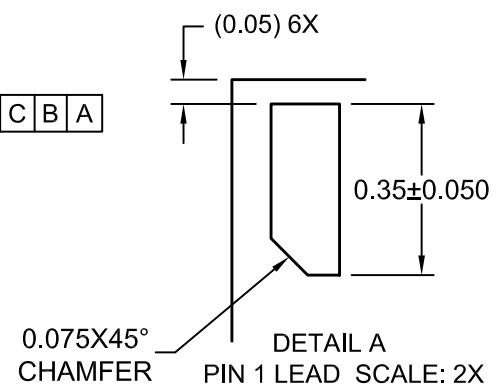
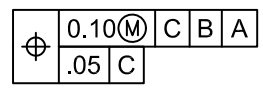
SIDE VIEW



ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION



BOTTOM VIEW



- NOTES:
 A. COMPLIES TO JEDEC MO-252 STANDARD
 B. DIMENSIONS ARE IN MILLIMETERS.
 C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009

DOCUMENT NUMBER:	98AON13593G	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
DESCRIPTION:	UDFN6 1.0X1.0, 0.35P	PAGE 1 OF 1

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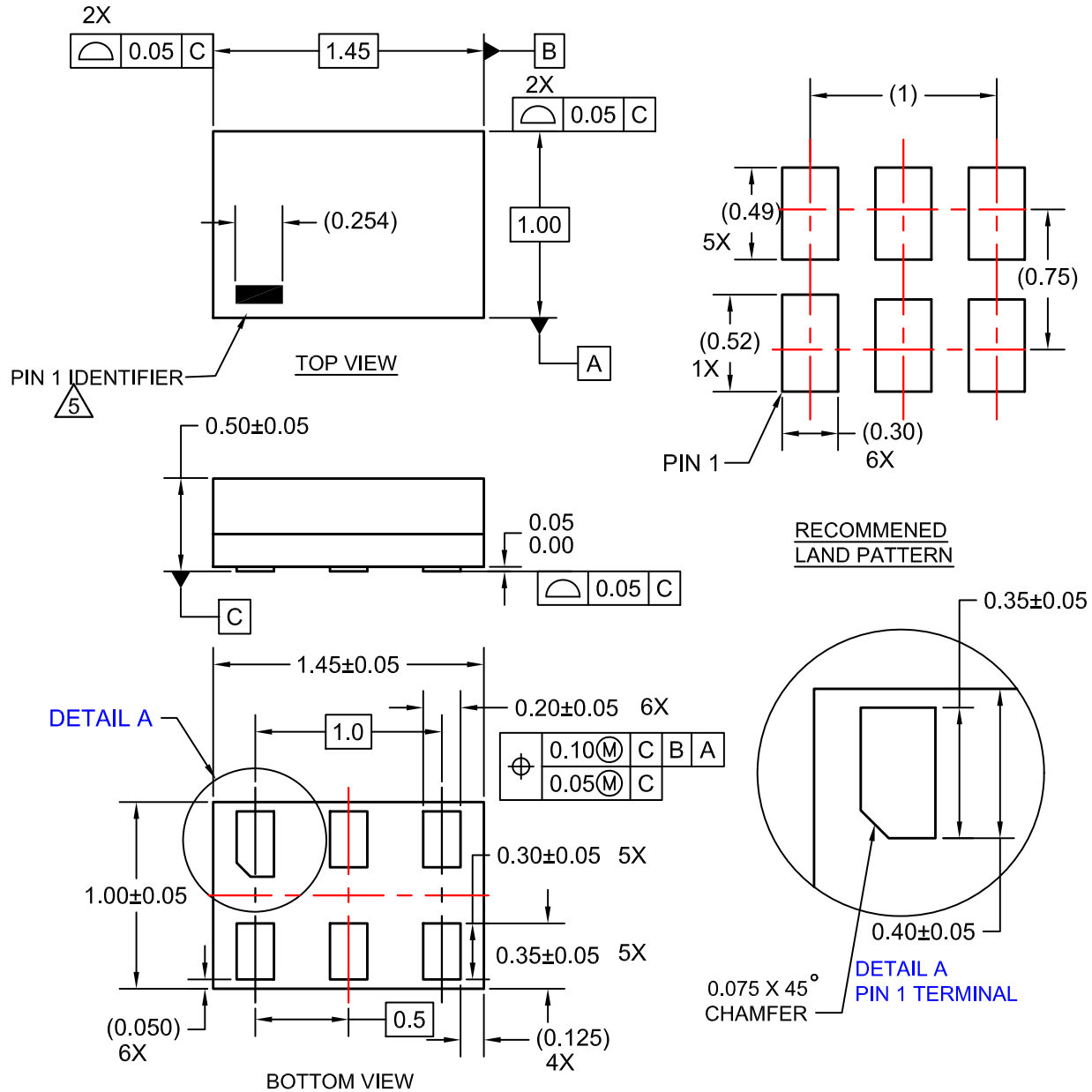
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CASE 127EB
ISSUE O

DATE 31 AUG 2016



NOTES:

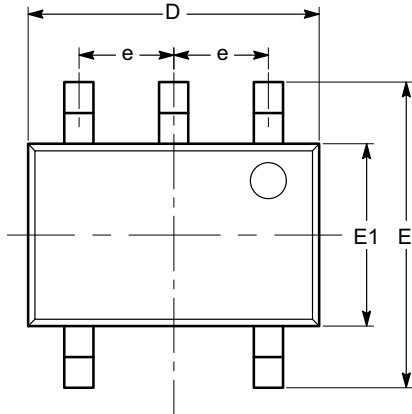
1. CONFORMS TO JEDEC STANDARD MO-252 VARIATION UAAD
2. DIMENSIONS ARE IN MILLIMETERS
3. DRAWING CONFORMS TO ASME Y14.5M-2009
4. PIN ONE IDENTIFIER IS 2X LENGTH OF ANY OTHER LINE IN THE MARK CODE LAYOUT.

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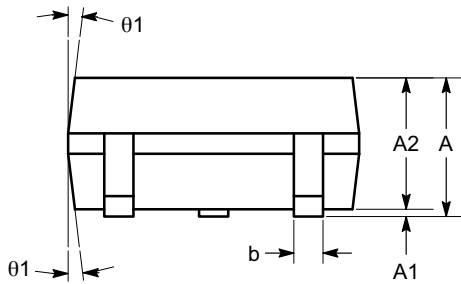
SC-88A (SC-70 5 Lead), 1.25x2
CASE 419AC-01
ISSUE A

DATE 29 JUN 2010

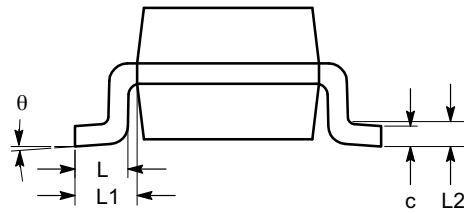


TOP VIEW

SYMBOL	MIN	NOM	MAX
A	0.80		1.10
A1	0.00		0.10
A2	0.80		1.00
b	0.15		0.30
c	0.10		0.18
D	1.80	2.00	2.20
E	1.80	2.10	2.40
E1	1.15	1.25	1.35
e	0.65 BSC		
L	0.26	0.36	0.46
L1	0.42 REF		
L2	0.15 BSC		
θ	0°		8°
θ_1	4°		10°



SIDE VIEW



END VIEW

Notes:

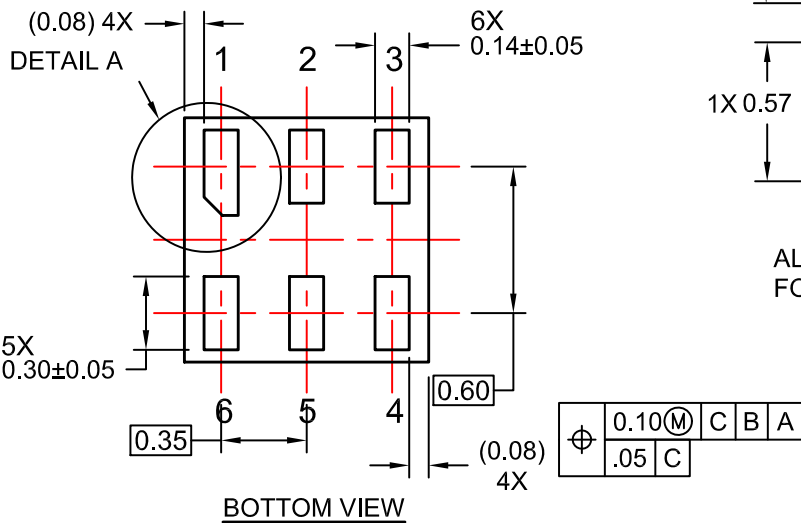
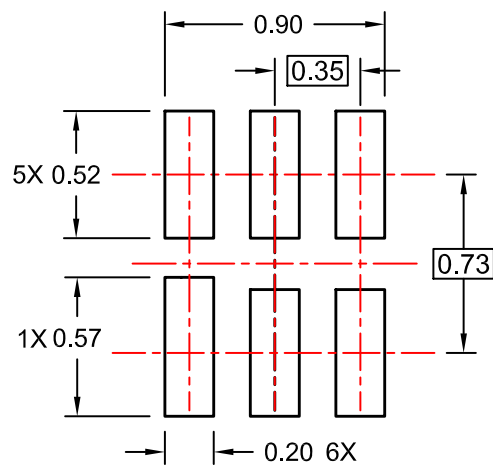
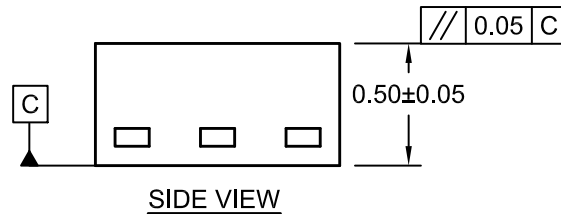
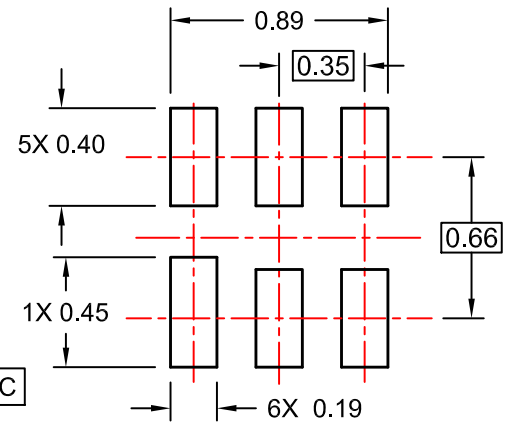
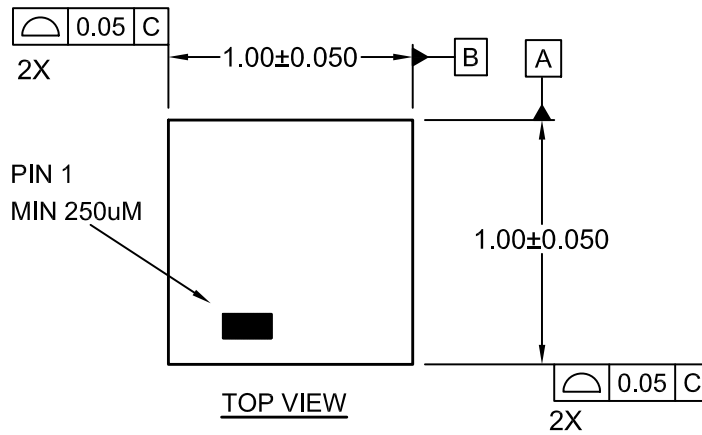
- (1) All dimensions are in millimeters. Angles in degrees.
- (2) Complies with JEDEC MO-203.

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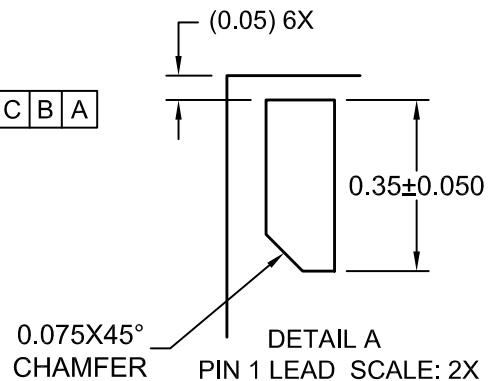
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CASE 517DP
ISSUE O

DATE 31 AUG 2016



- NOTES:**
- A. COMPLIES TO JEDEC MO-252 STANDARD
 - B. DIMENSIONS ARE IN MILLIMETERS.
 - C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009



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