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TinyLogic UHS Unbuffered Inverter

NC7SZU04

Description

The NC7SZU04 is a single unbuffered inverter from onsemi's Ultra-High Speed series of TinyLogic. The special purpose unbuffered circuit design is primarily intended for crystal oscillator or analog applications. The device is fabricated with advanced CMOS technology to achieve ultra-high speed with high output drive while maintaining low static power dissipation over a broad V_{CC} operating range. The device is specified to operate over the 1.65 V to 5.5 V V_{CC} range.

Features

- Unbuffered for Crystal Oscillator and Analog Applications
- Balanced Output Drive: ± 32 mA at 4.5 V V_{CC}
- Broad V_{CC} Operating Range: 1.65 V to 5.5 V
- Matches Performance of LCX Operated at 3.3 V V_{CC}
- Low Quiescent Power: $I_{CC} < 2$ μ A, $V_{CC} = 5.5$ V, $T_A = 25^\circ$ C
- Ultra-Small MicroPak™ Packages
- Space-Saving SOT-23-5 and SC-88A Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

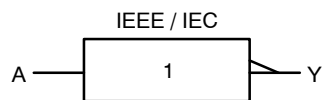
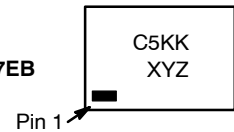


Figure 1. Logic Symbol

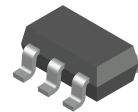
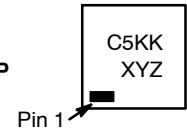
MARKING DIAGRAMS



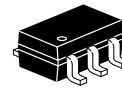
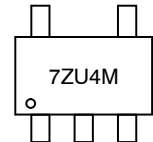
SIP6
CASE 127EB



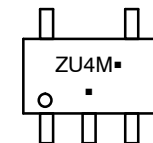
UDFN6
CASE 517DP



SOT-23-5
CASE 527AH



SC-88A
CASE 419A-02



C5, 7ZU4, ZU4 = Specific Device Code
 KK = 2-Digit Lot Run Traceability Code
 XY = 2-Digit Date Code Format
 Z = Assembly Plant Code
 M = Date Code*
 ■ = Pb-Free Package

(Note: Microdot may be in either location)

*Date Code orientation and/or position may vary depending upon manufacturing location.

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section 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.

NC7SZU04

Pin Configurations

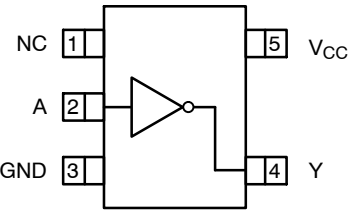


Figure 2. SC88A and SOT-23-5 (Top View)

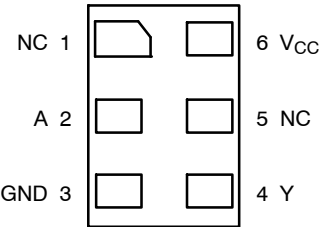


Figure 3. MicroPak (Top Through View)

PIN DEFINITIONS

Pin # SC-88A / SOT-23-5	Pin # MicroPak	Name	Description
1	1, 5	NC	No Connect
2	2	A	Input
3	3	GND	Ground
4	4	Y	Output
5	6	V _{CC}	Supply Voltage

FUNCTION TABLE

Inputs	Output
A	Y
L	H
H	L

H = HIGH Logic Level
L = LOW Logic Level

ABSOLUTE MAXIMUM RATINGS

Symbol	Parameter		Min	Max	Unit
V_{CC}	Supply Voltage		-0.5	6.5	V
V_{IN}	DC Input Voltage		-0.5	6.5	V
V_{OUT}	DC Output Voltage		-0.5	$V_{CC} + 0.5$	V
I_{IK}	DC Input Diode Current	$V_{IN} < 0\text{ V}$	-	-50	mA
I_{OK}	DC Output Diode Current	$V_{OUT} < 0\text{ V}$	-	-50	mA
		$V_{OUT} > V_{CC}$	-	+50	
I_{OUT}	DC Output Current		-	± 50	mA
I_{CC} or I_{GND}	DC V_{CC} or Ground Current		-	± 50	mA
T_{STG}	Storage Temperature Range		-65	+150	$^{\circ}\text{C}$
T_J	Junction Temperature Under Bias		-	+150	$^{\circ}\text{C}$
T_L	Junction Lead Temperature (Soldering, 10 Seconds)		-	+260	$^{\circ}\text{C}$
P_D	Power Dissipation in Still Air	SOT-23-5	-	390	mW
		SC-88A	-	332	
		MicroPak-6	-	812	
		MicroPak2™-6	-	812	
ESD	Human Body Model, JEDEC: JESD22-A114		-	4000	V
	Charge Device Model, JEDEC: JESD22-C101		-	2000	

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.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Conditions	Min	Max	Unit
V_{CC}	Supply Voltage Operating		1.65	5.5	V
	Supply Voltage Data Retention		1.50	5.5	
V_{IN}	Input Voltage		0	5.5	V
V_{OUT}	Output Voltage		0	V_{CC}	V
T_A	Operating Temperature		-40	+85	$^{\circ}\text{C}$
θ_{JA}	Thermal Resistance	SOT-23-5	-	320	$^{\circ}\text{C/W}$
		SC-88A	-	377	
		MicroPak-6	-	154	
		MicroPak2-6	-	154	

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.

1. Unused inputs must be held HIGH or LOW. They may not float.

NC7SZU04

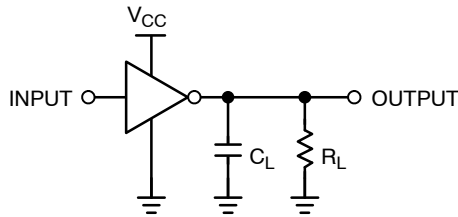
DC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	Conditions	V _{CC} (V)	T _A = +25°C			T _A = -40 to +85°C		Unit
				Min	Typ	Max	Min	Max	
V _{IH}	HIGH Level Input Voltage		1.8 to 2.7	0.85 V _{CC}	–	–	0.85 V _{CC}	–	V
			3.0 to 5.5	0.80 V _{CC}	–	–	0.80 V _{CC}	–	
V _{IL}	LOW Level Input Voltage		1.8 to 2.7	–	–	0.15 V _{CC}	–	0.15 V _{CC}	V
			3.0 to 5.5	–	–	0.20 V _{CC}	–	0.20 V _{CC}	
V _{OH}	High-Level Output Voltage	V _{IN} = GND							V
		I _{OH} = –100 µA	1.65 to 5.5	V _{CC} – 0.1	V _{CC}	–	V _{CC} – 0.1	–	
		I _{OH} = –4 mA	1.65	1.29	1.4	–	1.29	–	
		I _{OH} = –8 mA	2.3	1.9	2.1	–	1.9	–	
		I _{OH} = –12 mA	2.7	2.2	2.4	–	2.2	–	
		I _{OH} = –16 mA	3.0	2.4	2.7	–	2.4	–	
		I _{OH} = –24 mA	3.0	2.3	2.5	–	2.3	–	
V _{OL}	Low-Level Output Voltage	I _{OH} = –32 mA	4.5	3.8	4.0	–	3.8	–	V
		V _{IN} = V _{CC}							
		I _{OL} = 100 µA	1.65 to 5.5	–	–	0.1	–	0.1	
		I _{OL} = 4 mA	1.65	–	0.08	0.24	–	0.24	
		I _{OL} = 8 mA	2.3	–	0.2	0.3	–	0.3	
		I _{OL} = 12 mA	2.7	–	0.22	0.4	–	0.4	
		I _{OL} = 16 mA	3.0	–	0.28	0.4	–	0.4	
I _{IN}	Input Leakage Current	I _{OL} = 24 mA	3.0	–	0.38	0.55	–	0.55	µA
		I _{OL} = 32 mA	4.5	–	0.42	0.55	–	0.55	
I _{CC}	Quiescent Supply Current	V _{IN} = 5.5 V, GND	1.65 to 5.5	–	–	2	–	20	µA

AC ELECTRICAL CHARACTERISTICS

Symbol	Parameter	V _{CC} (V)	Conditions	T _A = +25°C			T _A = -40 to +85°C		Unit
				Min	Typ	Max	Min	Max	
t _{PLH} , t _{PHL}	Propagation Delay (Figure 4, 5)	1.65	C _L = 15 pF, R _L = 1 MΩ	–	–	11.7	–	12.1	ns
		1.80		–	–	8.5	–	9.0	
		2.50 ±0.20		–	–	6.2	–	6.5	
		3.30 ±0.30		–	–	4.5	–	4.8	
		5.00 ±0.50		–	–	3.9	–	4.1	
		3.30 ±0.30	C _L = 50 pF, R _L = 500 Ω	–	–	6.0	–	6.5	
		5.00 ±0.50		–	–	5.0	–	5.5	
C _{IN}	Input Capacitance	0.00		–	4.5	–	–	–	pF
C _{PD}	Power Dissipation Capacitance (Note 2) (Figure 6)	3.30		–	6.3	–	–	–	pF
		5.00		–	9.5	–	–	–	

2. C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression:
 $I_{CCD} = (C_{PD}) (V_{CC}) (f_{IN}) + (I_{CCstatic})$.



- NOTE:
 3. C_L includes load and stray capacitance.
 4. Input PRR = 1.0 MHz; t_W = 500 ns

Figure 4. AC Test Circuit

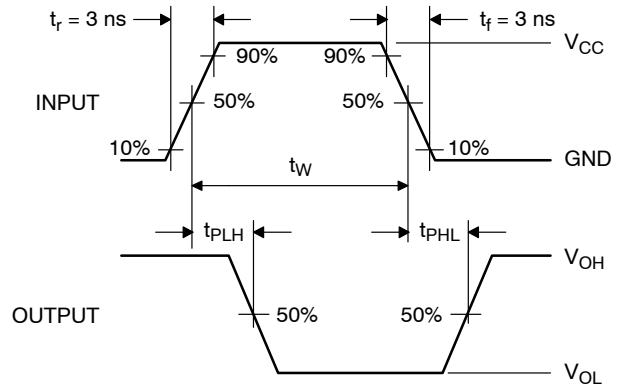
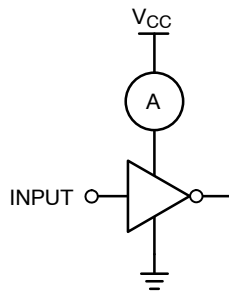


Figure 5. AC Waveforms



- NOTE:
 5. When operating the NC7SZU04's unbuffered output stage in its linear range, as in oscillator applications, care must be taken to observe maximum power rating for the device and package. The high drive nature of the design of the output stage results in substantial simultaneous conduction currents when the stage is in the linear region. See the I_{CCPEAK} specification in the [DC Electrical Characteristics](#) table.
 6. Input = AC Waveform; t_r = t_f = 1.8 ns; PRR = Variable; Duty Cycle = 50%.

Figure 6. I_{CCD} Test Circuit

NC7SZU04

ORDERING INFORMATION

Part Number	Top Mark	Packages	Shipping [†]
NC7SZU04P5X	ZU4	SC-88A	3000 / Tape & Reel
NC7SZU04L6X	C5	SIP6, MicroPak	5000 / Tape & Reel
NC7SZU04FHX	C5	UDFN6, MicroPak2	5000 / Tape & Reel

DISCONTINUED (Note 7)

NC7SZU04M5X	7ZU4	SOT-23-5	3000 / Tape & Reel
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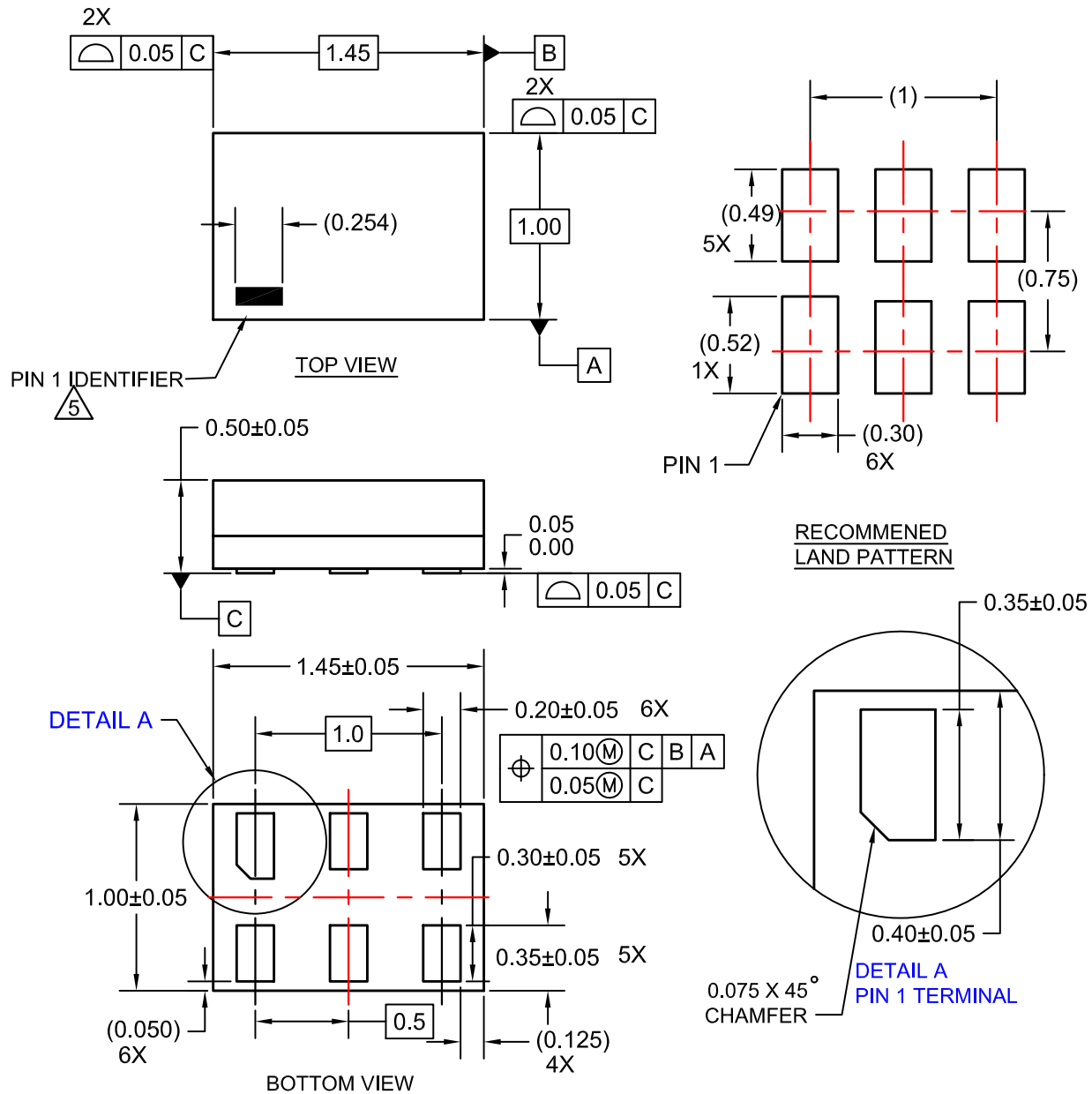
[†]For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D.

7. **DISCONTINUED:** This device is not recommended for new design. Please contact your **onsemi** representative for information. The most current information on this device may be available on www.onsemi.com.

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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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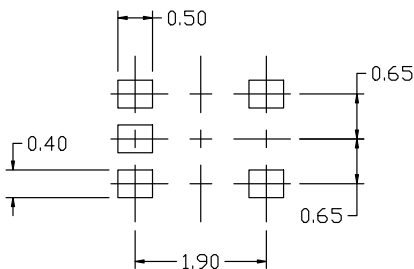
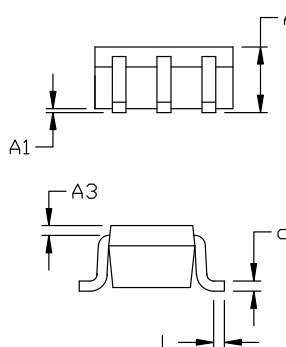
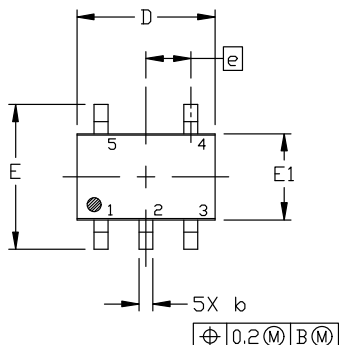
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SCALE 2:1

SC-88A (SC-70-5/SOT-353)
CASE 419A-02
ISSUE M

DATE 11 APR 2023

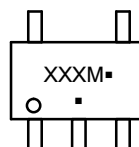

**RECOMMENDED
MOUNTING FOOTPRINT**

* For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETERS
3. 419A-01 OBSOLETE. NEW STANDARD 419A-02
4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.1016MM PER SIDE.

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.80	0.95	1.10
A1	---	---	0.10
A3	0.20 REF		
b	0.10	0.20	0.30
c	0.10	---	0.25
D	1.80	2.00	2.20
E	2.00	2.10	2.20
E1	1.15	1.25	1.35
e	0.65 BSC		
L	0.10	0.15	0.30

**GENERIC MARKING
DIAGRAM***


*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

XXX = Specific Device Code

M = Date Code

▪ = Pb-Free Package

(Note: Microdot may be in either location)

STYLE 1:

- PIN 1. BASE
2. EMITTER
3. BASE
4. COLLECTOR
5. COLLECTOR

STYLE 2:

- PIN 1. ANODE
2. EMITTER
3. BASE
4. COLLECTOR
5. CATHODE

STYLE 3:

- PIN 1. ANODE 1
2. N/C
3. ANODE 2
4. CATHODE 2
5. CATHODE 1

STYLE 4:

- PIN 1. SOURCE 1
2. DRAIN 1/2
3. SOURCE 1
4. GATE 1
5. GATE 2

STYLE 5:

- PIN 1. CATHODE
2. COMMON ANODE
3. CATHODE 2
4. CATHODE 3
5. CATHODE 4

STYLE 6:

- PIN 1. EMITTER 2
2. BASE 2
3. EMITTER 1
4. COLLECTOR
5. COLLECTOR 2/BASE 1

STYLE 7:

- PIN 1. BASE
2. EMITTER
3. BASE
4. COLLECTOR
5. COLLECTOR

STYLE 8:

- PIN 1. CATHODE
2. COLLECTOR
3. N/C
4. BASE
5. EMITTER

STYLE 9:

- PIN 1. ANODE
2. CATHODE
3. ANODE
4. ANODE
5. ANODE

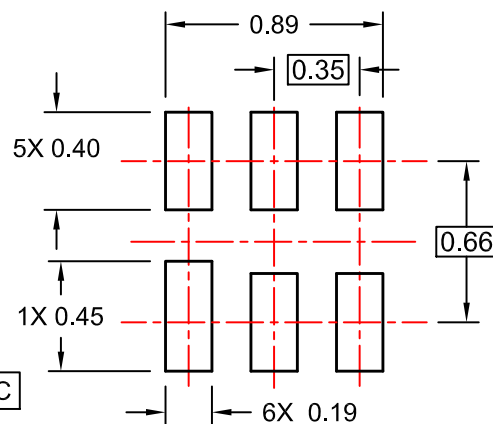
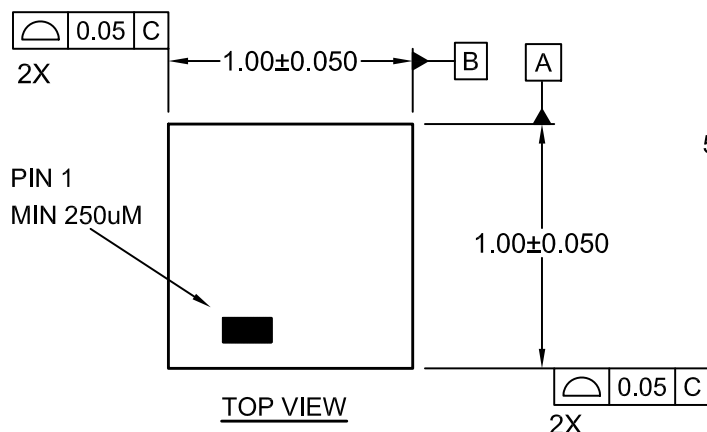
Note: Please refer to datasheet for style callout. If style type is not called out in the datasheet refer to the device datasheet pinout or pin assignment.

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DESCRIPTION:	SC-88A (SC-70-5/SOT-353)	PAGE 1 OF 1

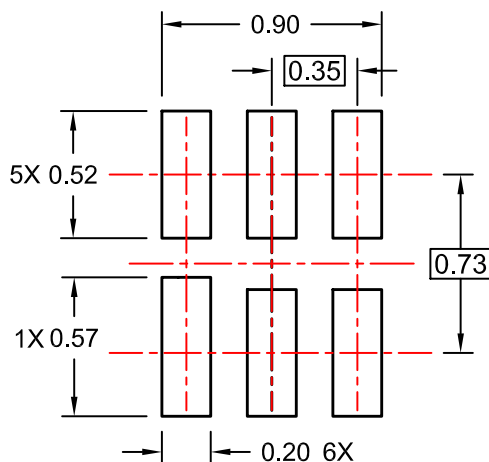
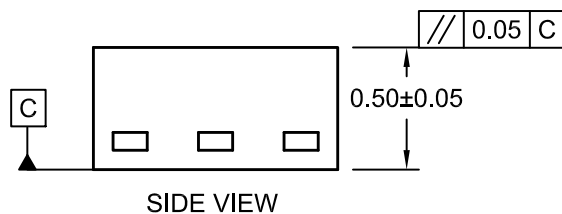
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UDFN6 1.0X1.0, 0.35P
CASE 517DP
ISSUE O

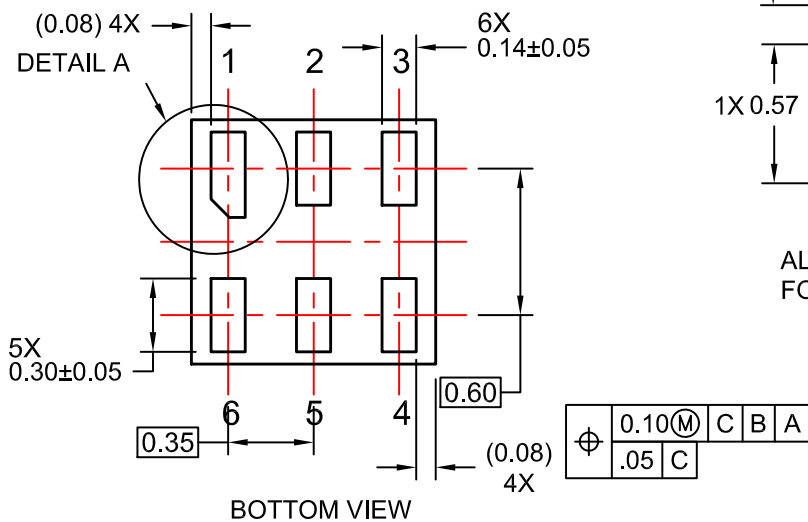
DATE 31 AUG 2016



RECOMMENDED LAND PATTERN FOR SPACE CONSTRAINED PCB

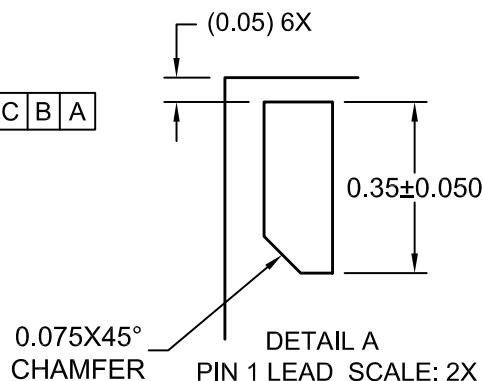


ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION



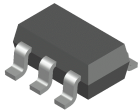
NOTES:

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

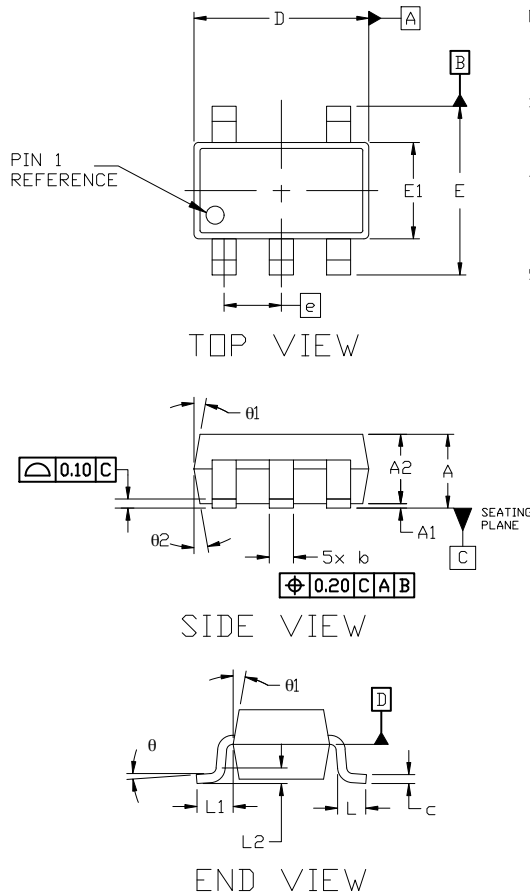


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DESCRIPTION:	UDFN6 1.0X1.0, 0.35P	PAGE 1 OF 1

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SOT-23, 5 Lead
CASE 527AH
ISSUE A

DATE 09 JUN 2021

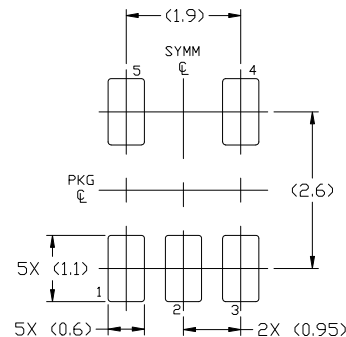

XXX = Specific Device Code
M = Date Code

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "▪", may or may not be present. Some products may not follow the Generic Marking.

NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 19894
2. CONTROLLING DIMENSION: MILLIMETERS
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF THE BASE MATERIAL.
4. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.25 PER SIDE. D AND E1 DIMENSIONS ARE DETERMINED AT DATUM D.
5. DIMENSION 'b' DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08mm TOTAL IN EXCESS OF THE 'b' DIMENSION AT MAXIMUM MATERIAL CONDITION. MINIMUM SPACE BETWEEN PROTRUSION AND AN ADJACENT LEAD SHALL NOT BE LESS THAN 0.07mm.

DIM	MILLIMETERS		
	MIN.	NOM.	MAX.
A	0.90	—	1.45
A1	0.00	—	0.15
A2	0.90	1.15	1.30
b	0.30	—	0.50
c	0.08	—	0.22
D	2.90 BSC		
E	2.80 BSC		
E1	1.60 BSC		
e	0.95 BSC		
L	0.30	0.45	0.60
L1	0.60 REF		
L2	0.25 REF		
θ	0°	4°	8°
θ1	0°	10°	15°
θ2	0°	10°	15°


RECOMMENDED
MOUNTING FOOTPRINT

For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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