MARKING



TinyLogic ULP-A 2-Input NAND Gate

NC7SV00

The NC7SV00 is a single 2-Input NAND 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
- 1.5 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

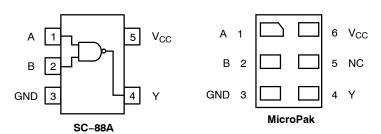


Figure 1. Pinout Diagrams (Top Views)



Figure 2. Logic Symbol

SIP6 1.45X1.0 MicroPak CASE 127EB Pin 1 UDFN6 MicroPak2TM CASE 517DP Pin 1 CC Specific Device Code



= 2-Digit Lot Run Traceability Code



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.

PIN ASSIGNMENT

| Pin | SC-88A | MicroPak |
|-----|-----------------|-----------------|
| 1 | А | Α |
| 2 | В | В |
| 3 | GND | GND |
| 4 | Υ | Υ |
| 5 | V _{CC} | N.C. |
| 6 | - | V _{CC} |

N.C. = No Connect

FUNCTION TABLE

1

ΚK

| Inp | Output | |
|-----|--------|---|
| Α | В | Υ |
| L | L | Н |
| L | Н | Н |
| Н | L | Н |
| Н | Н | L |

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 |
| l _{ok} | DC Output Diode Current V _{OUT} < GND | -50 | mA |
| l _{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 |
| TL | Lead Temperature, 1 mm from Case for 10 Seconds | 260 | °C |
| TJ | Junction Temperature Under Bias | +150 | °C |
| $\theta_{\sf JA}$ | 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) Human Body Model Charged Device Model | 4000 2000 | ٧ |
| 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.

- Applicable to devices with outputs that may be tri-stated.
 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.
 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.



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 V ± 0.3 V 0 | 10 | 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

| | | | | Т | A = 25° | С | T _A = -40°0 | C to +85°C | |
|-----------------|-------------------|-------------------------------|---------------------|------------------------|--------------------------|------------------------|------------------------|------------------------|------|
| Symbol | Parameter | Condition | V _{CC} (V) | Min | Тур | Max | Min | Max | Unit |
| V _{IH} | High-Level Input | | 0.9 | - | 0.5 | - | - | - | V |
| | Voltage | | 1.1 to 1.3 | 0.65 x V _{CC} | - | - | 0.65 x V _{CC} | - | |
| | | | 1.4 to 1.6 | 0.65 x V _{CC} | - | - | 0.65 x V _{CC} | - | |
| | | | 1.65 to 1.95 | 0.65 x V _{CC} | - | - | 0.65 x 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 | | 0.9 | - | 0.5 | - | - | - | V |
| | Voltage | | 1.1 to 1.3 | - | - | 0.35 x V _{CC} | - | 0.35 x V _{CC} | |
| | | | 1.4 to 1.6 | - | - | 0.35 x V _{CC} | - | 0.35 x V _{CC} | |
| | | | 1.65 to 1.95 | - | - | 0.35 x V _{CC} | - | 0.35 x 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 | $V_{IN} = V_{IH}$ or V_{IL} | | | | | | | V |
| | Voltage | I _{OH} = -100 μA | 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 o 1.3 | 0.75 x V _{CC} | _ | - | 0.75 x V _{CC} | - | |
| | | $I_{OH} = -4 \text{ mA}$ | 1.4 to 1.6 | 0.75 x V _{CC} | _ | - | 0.75 x V _{CC} | - | |
| | | $I_{OH} = -6 \text{ mA}$ | 1.65 to 1.95 | 1.25 | - | - | 1.25 | - | |
| | | | 2.3 to <2.7 | 2.0 | _ | - | 2.0 | - | |
| | | I _{OH} = -12 mA | 2.3 to <2.7 | 1.8 | - | - | 1.8 | - | |
| | | | 2.7 to 3.6 | 2.2 | - | - | 2.2 | - | |
| | | I _{OH} = -18 mA | 2.3 to <2.7 | 1.7 | - | - | 1.7 | - | |
| | | | 2.7 to 3.6 | 2.4 | - | - | 2.4 | _ | |
| | | $I_{OH} = -24 \text{ mA}$ | 2.7 to 3.6 | 2.2 | _ | - | 2.2 | - | |

DC ELECTRICAL CHARACTERISTICS (continued)

| | | | | 7 | _A = 25° | С | T _A = -40° | C to +85°C | |
|------------------|------------------------------|--|---------------------|-----|--------------------|------------------------|-----------------------|------------------------|------|
| Symbol | Parameter | Condition | V _{CC} (V) | Min | Тур | Max | Min | Max | Unit |
| V _{OL} | Low-Level | $V_{IN} = V_{IH}$ or V_{IL} | | | | | | | V |
| | Output Voltage | I _{OL} = 100 μA | 0.9 | - | 0.1 | - | - | - | |
| | | | 1.1 to 1.3 | ı | _ | 0.1 | ı | 0.1 | |
| | | | 1.4 to 1.6 | ı | _ | 0.1 | - | 0.1 | |
| | | | 1.65 to 1.95 | ı | _ | 0.2 | ı | 0.2 | |
| | | | 2.3 to < 2.7 | ı | _ | 0.2 | - | 0.2 | |
| | | | 2.7 to 3.6 | ı | _ | 0.2 | - | 0.2 | |
| | | I _{OL} = 2 mA | 1.1 o 1.3 | ı | _ | 0.25 x V _{CC} | ı | 0.25 x V _{CC} | |
| | | I _{OL} = 4 mA | 1.4 to 1.6 | ı | _ | 0.25 x V _{CC} | - | 0.25 x V _{CC} | |
| | | I _{OL} = 6 mA | 1.65 to 1.95 | ı | _ | 0.3 | ı | 0.3 | |
| | | I _{OL} = 12 mA | 2.3 to <2.7 | ı | _ | 0.4 | - | 0.4 | |
| | | | 2.7 to 3.6 | 1 | _ | 0.4 | ı | 0.4 | |
| | | I _{OL} = 18 mA | 2.3 to <2.7 | ı | _ | 0.6 | ı | 0.6 | |
| | | | 2.7 to 3.6 | 1 | _ | 0.4 | ı | 0.4 | |
| | | I _{OL} = 24 mA | 2.7 to 3.6 | ı | _ | 0.55 | ı | 0.55 | |
| I _{IN} | Input Leakage Current | V _{IN} = 0 V to 3.6 V | 0.9 to 3.6 | - | - | ±0.1 | - | ±0.5 | μΑ |
| 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 | μΑ |
| I _{CC} | Quiescent Supply Current | V _{IN} = V _{CC} or GND | 0.9 to 3.6 | - | - | 0.9 | - | 0.9 | μΑ |

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

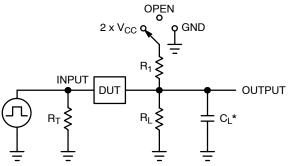
| | | | | 1 | Γ _A = 25°0 |) | T _A = -40°C | C to +85°C | |
|---------------------------------------|------------------------------------|---|---------------------|-----|-----------------------|------|------------------------|------------|------|
| Symbol | Parameter | Condition | V _{CC} (V) | Min | Тур | Max | Min | Max | Unit |
| t _{PLH} , Propagation Delay, | | $R_L = 1 \text{ M}\Omega$, $C_L = 15 \text{ pF}$ | 0.9 | _ | 20.5 | _ | - | - | ns |
| t _{PHL} | (A or B) to Y (Figures 3 and 4) | $R_L = 2 \text{ k}\Omega$, $C_L = 15 \text{ pF}$ | 1.1 to 1.3 | _ | 6.3 | 13.1 | - | 15.2 | |
| | , | | 1.4 to 1.6 | _ | 3.4 | 6.0 | - | 7.2 | |
| | | $R_L = 500 \Omega, C_L = 30 pF$ | 1.65 to 1.95 | - | 2.4 | 4.5 | - | 5.3 | |
| | | | 2.3 to 2.7 | - | 1.8 | 2.6 | - | 3.7 | |
| | | | 2.7 to 3.6 | - | 1.5 | 2.3 | - | 3.0 | |

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}.





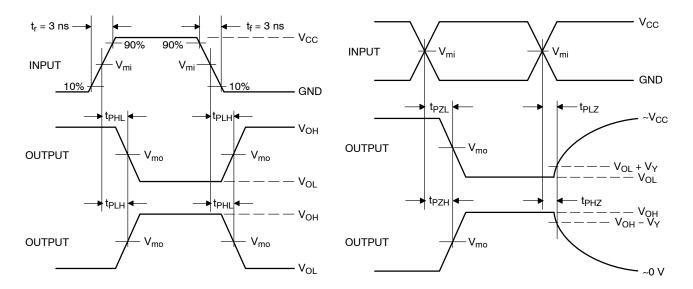
| Test | Switch Position |
|-------------------------------------|---------------------|
| t _{PLH} / t _{PHL} | Open |
| t _{PLZ} / t _{PZL} | 2 x V _{CC} |
| t _{PHZ} / t _{PZH} | GND |

 C_L includes probe and jig capacitance

 R_{T} is Z_{OUT} of pulse generator (typically 50 $\Omega)$

f = 1 MHz

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

ORDERING INFORMATION

| Device | Package | Marking | Pin 1 Orientation (See below) | Shipping [†] |
|------------|---------|---------|----------------------------------|-----------------------|
| NC7SV00P5X | SC-88A | V00 | Q4 | 3000 / Tape & Reel |

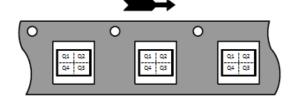
DISCONTINUED (Note 6)

| NC7SV00L6X | MicroPak | F5 | Q4 | 5000 / Tape & Reel |
|-------------------|-----------|----|----|--------------------|
| NC7SV00FHX | MicroPak2 | F5 | Q4 | 5000 / Tape & Reel |
| NC7SV00FHX-L22780 | MicroPak2 | F5 | 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.

PIN 1 ORIENTATION IN TAPE AND REEL

Direction of Feed



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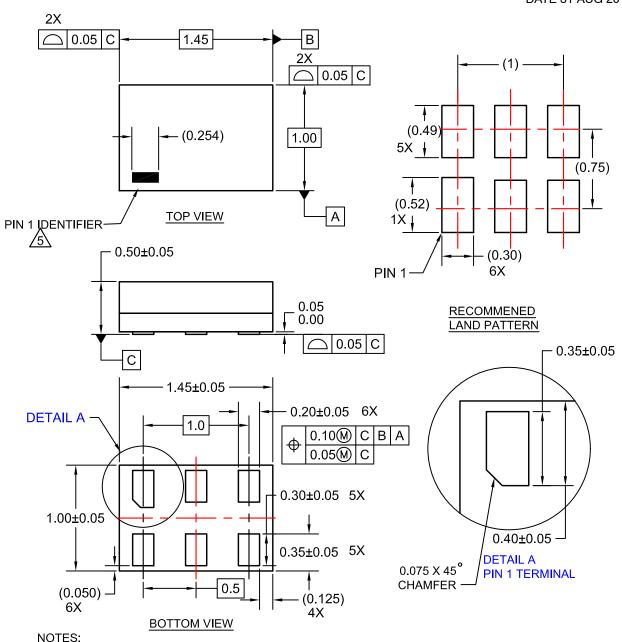


^{6.} **DISCONTINUED:** These devices are not recommended for new design. Please contact your **onsemi** representative for information. The most current information on these devices may be available on www.onsemi.com.



SIP6 1.45X1.0CASE 127EB ISSUE O

DATE 31 AUG 2016



- 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.

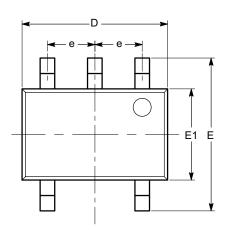
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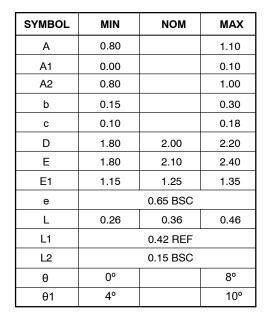


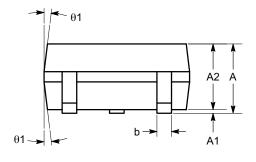
SC-88A (SC-70 5 Lead), 1.25x2 CASE 419AC-01 ISSUE A

DATE 29 JUN 2010

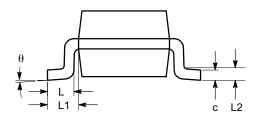


TOP VIEW





SIDE VIEW



END VIEW

Notes

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

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UDFN6 1.0X1.0, 0.35P CASE 517DP ISSUE O **DATE 31 AUG 2016** 0.89 -∆|0.05|C В 1.00±0.050 |0.35|2X 5X 0.40 PIN 1 MIN 250uM 0.66 1 00±0 050 1X 0.45 \triangle 0.05 \mid C **TOP VIEW** - 6X 0.19 **RECOMMENDED LAND PATTERN** FOR SPACE CONSTRAINED PCB 0.05 C 0.90 l0.35 0.50±0.05 С 5X 0.52 SIDE VIEW 6X 0.14±0.05 (0.08) 4X -0.73 2 **DETAIL A** 1X 0.57 - 0.20 6X ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION - (0.05) 6X 5X 0.30±0.05 0.60 0.10M|C|B|A0.35 (80.0).05 C 4X 0.35±0.050 **BOTTOM VIEW** NOTES: A. COMPLIES TO JEDEC MO-252 STANDARD B. DIMENSIONS ARE IN MILLIMETERS. C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009 0.075X45° **DETAIL A CHAMFER** PIN 1 LEAD SCALE: 2X

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ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

 $\textbf{Technical Library:} \ \underline{www.onsemi.com/design/resources/technical-documentation}$

onsemi Website: www.onsemi.com

ONLINE SUPPORT: www.onsemi.com/support

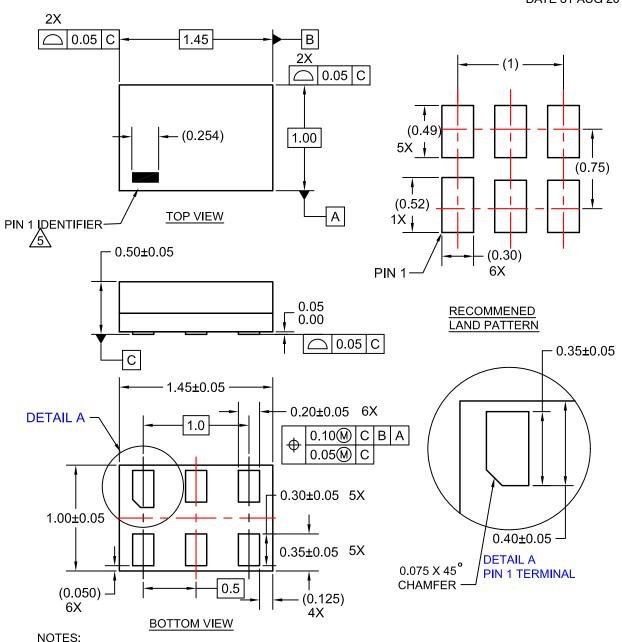
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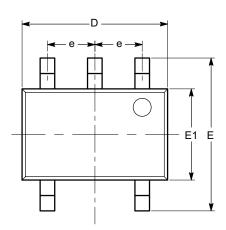
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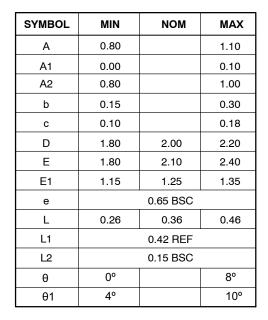


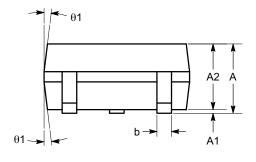
SC-88A (SC-70 5 Lead), 1.25x2 CASE 419AC-01 ISSUE A

DATE 29 JUN 2010

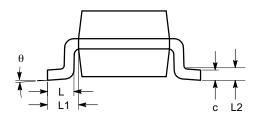


TOP VIEW





SIDE VIEW



END VIEW

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| 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** 0.89 -∆|0.05|C В 1.00±0.050 |0.35|2X 5X 0.40 PIN 1 MIN 250uM 0.66 1 00±0 050 1X 0.45 \triangle 0.05 \mid C **TOP VIEW** - 6X 0.19 **RECOMMENDED LAND PATTERN** FOR SPACE CONSTRAINED PCB 0.05 C 0.90 l0.35 0.50±0.05 С 5X 0.52 SIDE VIEW 6X 0.14±0.05 (0.08) 4X -0.73 2 **DETAIL A** 1X 0.57 - 0.20 6X ALTERNATIVE LAND PATTERN FOR UNIVERSAL APPLICATION - (0.05) 6X 5X 0.30±0.05 0.60 0.10M|C|B|A0.35 (80.0).05 C 4X 0.35±0.050 **BOTTOM VIEW** NOTES: A. COMPLIES TO JEDEC MO-252 STANDARD B. DIMENSIONS ARE IN MILLIMETERS. C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009 0.075X45° **DETAIL A CHAMFER** PIN 1 LEAD SCALE: 2X

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

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