

TinyLogic UHS Buffer with Three-State Output

NC7SZ125

Description

The NC7SZ125 is a single buffer with three-state output from onsemi's Ultra-High Speed (UHS) of TinyLogic. 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 very broad V_{CC} operating range. The device is specified to operate over the 1.65 V to 5.5 V range. The inputs and output are high impedance above ground when V_{CC} is 0 V. Inputs tolerate voltages up to 5.5 V independent of V_{CC} operating voltage. The output tolerates voltages above V_{CC} when in the 3-STATE condition.

Features

- Ultra-High Speed: $t_{PD} = 2.6$ ns (Typical) into 50 pF at 5 V V_{CC}
- High Output Drive: ± 24 mA at 3 V V_{CC}
- Broad V_{CC} Operating Range: 1.65 V to 5.5 V
- Matches Performance of LCX when Operated at 3.3 V V_{CC}
- Power Down High-Impedance Inputs / Outputs
- Over-Voltage Tolerance Inputs Facilitate 5 V to 3 V Translation
- Proprietary Noise / EMI Reduction Circuitry
- Ultra-Small MicroPak™ Packages
- Space-Saving SOT23-5, SC-74A and SC-88A Packages
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

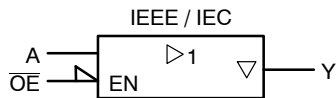
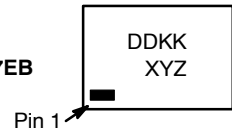


Figure 1. Logic Symbol

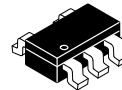
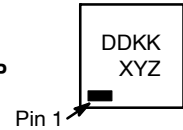
MARKING DIAGRAMS



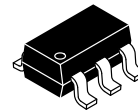
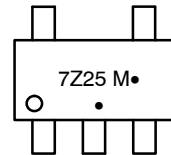
SIP6
CASE 127EB



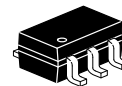
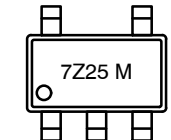
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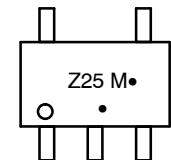
SC-74A
CASE 318BQ



SOT23-5
CASE 527AH



SC-88A
CASE 419A-02



DD, 7Z25, Z25 = 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
 (Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering, marking and shipping information in the package dimensions section on page 6 of this data sheet.

NC7SZ125

Pin Configurations

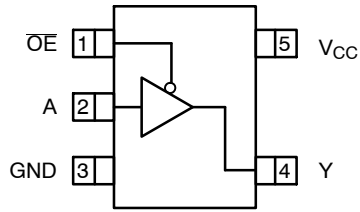


Figure 2. SOT23-5, SC-88A and SC-74A
(Top View)

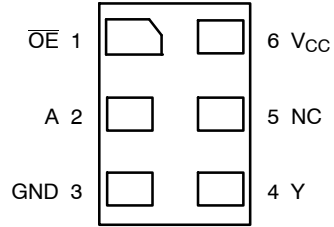


Figure 3. MicroPak (Top Through View)

PIN DEFINITIONS

| Pin # SOT23-5 / SC-88A / SC74A | Pin # MicroPak | Name | Description |
|---|----------------|-----------------|----------------|
| 1 | 1 | \overline{OE} | Input |
| 2 | 2 | A | Input |
| 3 | 3 | GND | Ground |
| 4 | 4 | Y | Output |
| 5 | 6 | V _{CC} | Supply Voltage |
| | 5 | NC | No Connect |

FUNCTION TABLE

| Inputs | | Output |
|-----------------|---|--------|
| \overline{OE} | A | Y |
| L | L | L |
| L | H | H |
| H | X | Z |

H = HIGH Logic Level
 L = LOW Logic Level
 X = HIGH or LOW Logic Level
 Z = HIGH Impedance State

NC7SZ125

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 | 6.5 | V |
| I _{IK} | DC Input Diode Current | V _{IN} < 0 V | - | -50 | mA |
| I _{OK} | DC Output Diode Current | V _{OUT} < 0 V | - | -50 | mA |
| 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 | °C |
| T _J | Junction Temperature Under Bias | | - | +150 | °C |
| T _L | Junction Lead Temperature (Soldering, 10 Seconds) | | - | +260 | °C |
| P _D | Power Dissipation in Still Air | SC-74A / SOT23-5 | - | 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 | 5.50 | V |
| | Supply Voltage Data Retention | | 1.50 | 5.50 | |
| V _{IN} | Input Voltage | | 0 | 5.5 | V |
| V _{OUT} | Output Voltage | Active State | 0 | V _{CC} | V |
| | | Three-State | 0 | 5.5 | |
| T _A | Operating Temperature | | -40 | +85 | °C |
| t _r , t _f | Input Rise and Fall Times | V _{CC} at 1.8 V, 2.5 V ±0.2 V | 0 | 20 | ns/V |
| | | V _{CC} at 3.3 V ±0.3 V | 0 | 10 | |
| | | V _{CC} at 5.0 V ±0.5 V | 0 | 5 | |
| θ _{JA} | Thermal Resistance | SC-74A / SOT23-5 | - | 320 | °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.

NC7SZ125

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | Conditions | T _A = +25°C | | | T _A = -40 to +85°C | | Unit | |
|------------------|---------------------------|---------------------|---|--------------------------|------|----------------------|-------------------------------|----------------------|------|------|
| | | | | Min | Typ | Max | Min | Max | | |
| V _{IH} | HIGH Level Input Voltage | 1.65 to 1.95 | | 0.65 V _{CC} | - | - | 0.65 V _{CC} | - | V | |
| | | 2.30 to 5.50 | | 0.70 V _{CC} | - | - | 0.70 V _{CC} | - | | |
| V _{IL} | LOW Level Input Voltage | 1.65 to 1.95 | | - | - | 0.35 V _{CC} | - | 0.35 V _{CC} | V | |
| | | 2.30 to 5.50 | | - | - | 0.30 V _{CC} | - | 0.30 V _{CC} | | |
| V _{OH} | HIGH Level Output Voltage | 1.65 | V _{IN} = V _{IH} or V _{IL} , I _{OH} = -100 μA | 1.55 | 1.65 | - | 1.55 | - | V | |
| | | 1.80 | | 1.70 | 1.80 | - | 1.70 | - | | |
| | | 2.30 | | 2.20 | 2.30 | - | 2.20 | - | | |
| | | 3.00 | | 2.90 | 3.00 | - | 2.90 | - | | |
| | | 4.50 | | 4.40 | 4.50 | - | 4.40 | - | | |
| | | 1.65 | I _{OH} = -4 mA | 1.29 | 1.52 | - | 1.29 | - | | |
| | | 2.30 | | I _{OH} = -8 mA | 1.90 | 2.15 | - | 1.90 | | - |
| | | 3.00 | | I _{OH} = -16 mA | 2.40 | 2.80 | - | 2.40 | | - |
| | | 3.00 | | I _{OH} = -24 mA | 2.30 | 2.68 | - | 2.30 | | - |
| | | 4.50 | | I _{OH} = -32 mA | 3.80 | 4.20 | - | 3.80 | | - |
| V _{OL} | LOW Level Output Voltage | 1.65 | V _{IN} = V _{IH} or V _{IL} , I _{OL} = 100 μA | - | 0.00 | 0.10 | - | 0.00 | V | |
| | | 1.80 | | - | 0.00 | 0.10 | - | 0.10 | | |
| | | 2.30 | | - | 0.00 | 0.10 | - | 0.10 | | |
| | | 3.00 | | - | 0.00 | 0.10 | - | 0.10 | | |
| | | 4.50 | | - | 0.00 | 0.10 | - | 0.10 | | |
| | | 1.65 | I _{OL} = 4 mA | - | 0.80 | 0.24 | - | 0.24 | | |
| | | 2.30 | | I _{OL} = 8 mA | - | 0.10 | 0.30 | - | | 0.30 |
| | | 3.00 | | I _{OL} = 16 mA | - | 0.15 | 0.40 | - | | 0.40 |
| | | 3.00 | | I _{OL} = 24 mA | - | 0.22 | 0.55 | - | | 0.55 |
| | | 4.50 | | I _{OL} = 32 mA | - | 0.22 | 0.55 | - | | 0.55 |
| I _{IN} | Input Leakage Current | 1.65 to 5.5 | 0 ≥ V _{IN} ≥ 5.5 V | - | - | ±1 | - | ±10 | μA | |
| I _{OZ} | 3-STATE Output Leakage | 0 to 5.5 | V _{IN} = V _{IH} or V _{IL} 0 ≥ V _O ≥ 5.5 V | - | - | ±1 | - | ±10 | μA | |
| I _{OFF} | Power Off Leakage Current | 0 | V _{IN} or V _{OUT} = 5.5 V | - | - | 1 | - | 10 | μA | |
| I _{CC} | Quiescent Supply Current | 1.65 to 5.50 | V _{IN} = 5.5 V, GND | - | - | 2 | - | 20 | μA | |

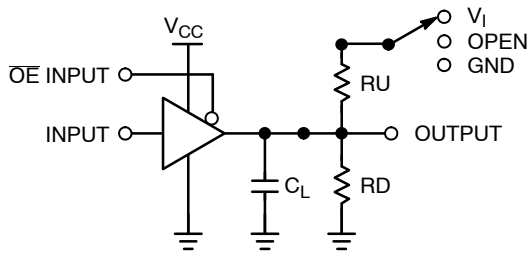
NC7SZ125

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, 6) | 1.65 | C _L = 15 pF, R _D = 1 MΩ S ₁ = OPEN | - | 6.4 | 13.2 | - | 13.8 | ns |
| | | 1.80 | | - | 5.3 | 11.0 | - | 11.5 | |
| | | 2.50 ±0.20 | | - | 3.4 | 7.5 | - | 8.0 | |
| | | 3.30 ±0.30 | | - | 2.5 | 5.2 | - | 5.5 | |
| | | 5.00 ±0.50 | | - | 2.1 | 4.5 | - | 4.8 | |
| | | 3.30 ±0.30 | C _L = 50 pF, R _D = 500 Ω S ₁ = OPEN | - | 3.2 | 5.7 | - | 6.0 | |
| | | 5.00 ±0.50 | | - | 2.6 | 5.0 | - | 5.3 | |
| t _{PZL} , t _{PZH} | Output Enable Time (Figure 4, 6) | 1.65 | C _L = 50 pF, R _D = 500 Ω R _U = 500 Ω S ₁ = GND for t _{PZH} S ₁ = V _{IN} for t _{PZL} V _{IN} = 2 · V _{CC} | - | 8.4 | 15.0 | - | 15.6 | ns |
| | | 1.80 | | - | 7.0 | 12.5 | - | 13.0 | |
| | | 2.50 ±0.20 | | - | 4.6 | 8.5 | - | 9.0 | |
| | | 3.30 ±0.30 | | - | 3.5 | 6.2 | - | 6.5 | |
| | | 5.00 ±0.50 | | - | 2.8 | 5.5 | - | 5.8 | |
| t _{PLZ} , t _{PHZ} | Output Disable Time (Figure 4, 6) | 1.65 | C _L = 50 pF, R _D = 500 Ω R _U = 500 Ω S ₁ = GND for t _{PHZ} S ₁ = V _{IN} for t _{PLZ} V _{IN} = 2 · V _{CC} | - | 6.5 | 13.2 | - | 14.5 | |
| | | 1.80 | | - | 5.4 | 11.0 | - | 12.0 | |
| | | 2.50 ±0.20 | | - | 3.5 | 8.0 | - | 8.5 | |
| | | 3.30 ±0.30 | | - | 2.8 | 5.7 | - | 6.0 | |
| | | 5.00 ±0.50 | | - | 2.1 | 4.7 | - | 5.0 | |
| C _{IN} | Input Capacitance | 0.00 | | - | 4 | - | - | - | pF |
| C _{OUT} | Output Capacitance | 0.00 | | - | 8 | - | - | - | |
| C _{PD} | Power Dissipation Capacitance (Note 2) (Figure 5) | 3.30 | | - | 17 | - | - | - | pF |

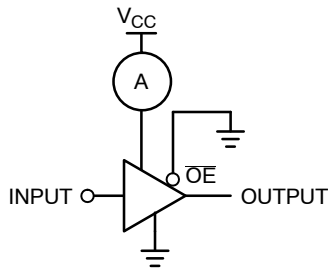
2. C_{PD} is defined as the value of the internal equivalent capacitance which is derived from dynamic operating current consumption (I_{CCD}) at no output loading and operating at 50% duty cycle. C_{PD} is related to I_{CCD} dynamic operating current by the expression:
 $I_{CCD} = (C_{PD}) (V_{CC})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

NC7SZ125



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

Figure 4. AC Test Circuit



NOTE:
4. Input = AC Waveform; $t_r = t_f = 1.8$ ns;
PRR = 10 MHz; Duty Cycle = 50%.

Figure 5. I_{CCD} Test Circuit

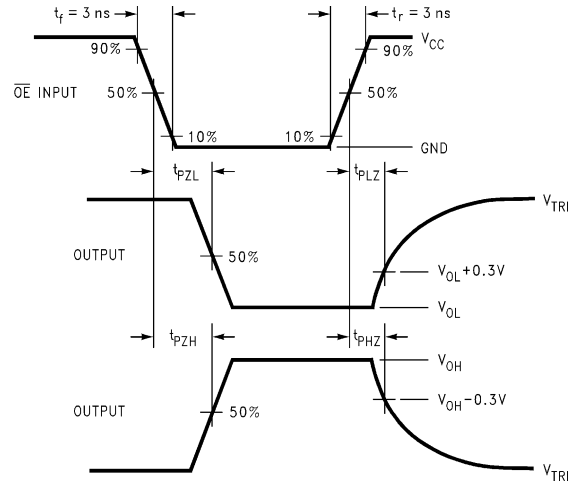
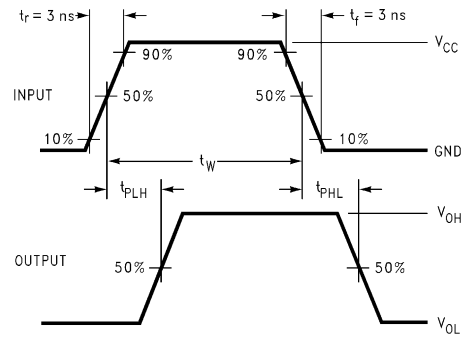


Figure 6. AC Waveforms

ORDERING INFORMATION

| Part Number | Top Mark | Operating Temperature | Packages | Shipping† |
|--------------------|----------|-----------------------|-----------|--------------------|
| NC7SZ125M5X | 7Z25 | -40 to +85°C | SC-74A | 3000 / Tape & Reel |
| NC7SZ125M5X-L22090 | 7Z25 | -40 to +85°C | SOT23-5 | 3000 / Tape & Reel |
| NC7SZ125P5X | Z25 | -40 to +85°C | SC-88A | 3000 / Tape & Reel |
| NC7SZ125P5X-F22057 | Z25 | -40 to +85°C | SC-88A | 3000 / Tape & Reel |
| NC7SZ125L6X | DD | -40 to +85°C | MicroPak | 5000 / Tape & Reel |
| NC7SZ125L6X-L22175 | DD | -40 to +85°C | MicroPak | 5000 / Tape & Reel |
| NC7SZ125FHX | DD | -40 to +85°C | MicroPak2 | 5000 / Tape & Reel |
| NC7SZ125FHX-L22175 | DD | -40 to +85°C | MicroPak2 | 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.

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

ON Semiconductor®



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.

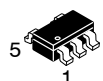
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| DESCRIPTION: | SIP6 1.45X1.0 | PAGE 1 OF 1 |

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

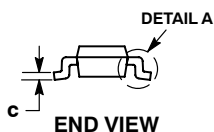
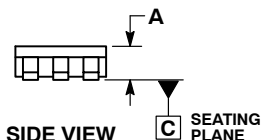
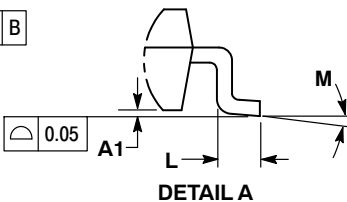
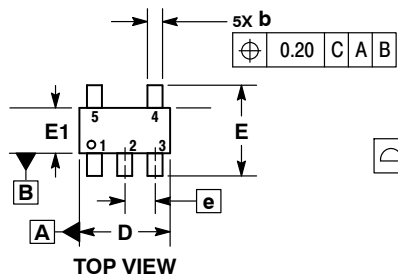
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SCALE 2:1

SC-74A CASE 318BQ ISSUE B

DATE 18 JAN 2018

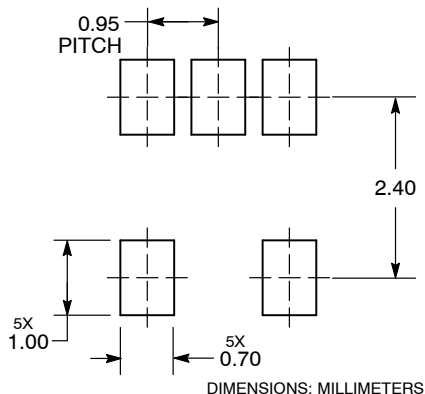


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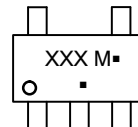
1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. MAXIMUM LEAD THICKNESS INCLUDES LEAD FINISH THICKNESS. MINIMUM LEAD THICKNESS IS THE MINIMUM THICKNESS OF BASE MATERIAL.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS. MOLD FLASH, PROTRUSIONS, OR GATE BURRS SHALL NOT EXCEED 0.15 PER SIDE.

| DIM | MILLIMETERS | |
|-----|-------------|------|
| | MIN | MAX |
| A | 0.90 | 1.10 |
| A1 | 0.01 | 0.10 |
| b | 0.25 | 0.50 |
| c | 0.10 | 0.26 |
| D | 2.85 | 3.15 |
| E | 2.50 | 3.00 |
| E1 | 1.35 | 1.65 |
| e | 0.95 BSC | |
| L | 0.20 | 0.60 |
| M | 0° | 10° |

RECOMMENDED SOLDERING FOOTPRINT*



GENERIC MARKING DIAGRAM*



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

(Note: Microdot may be in either location)

*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.

*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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| DESCRIPTION: | SC-74A | PAGE 1 OF 1 |

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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

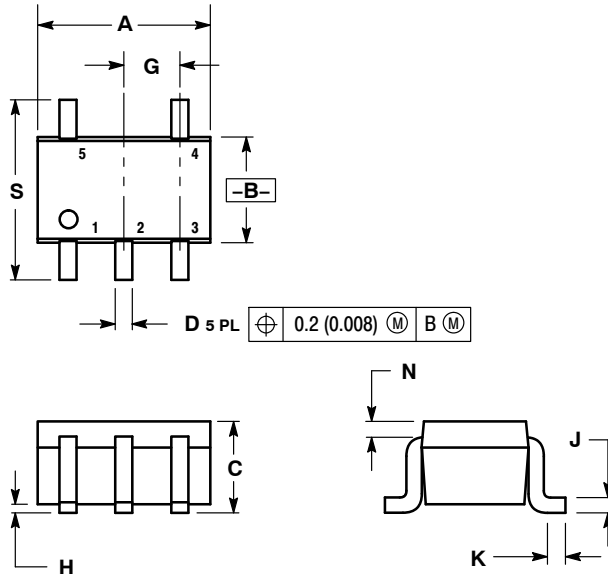
ON Semiconductor®



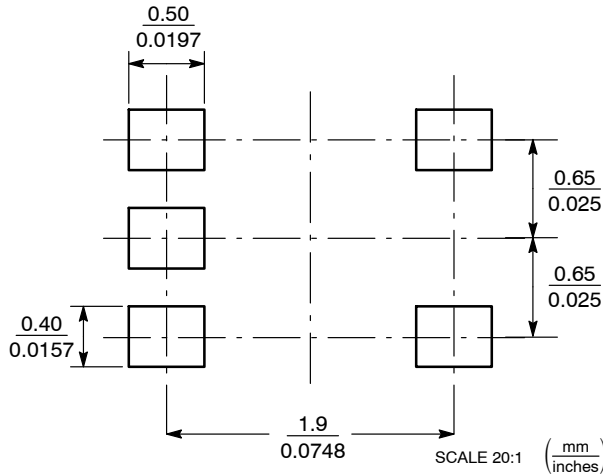
SCALE 2:1

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

DATE 17 JAN 2013



SOLDER FOOTPRINT

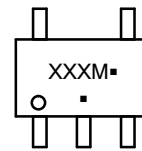


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. 419A-01 OBSOLETE. NEW STANDARD 419A-02.
4. DIMENSIONS A AND B DO NOT INCLUDE MOLD FLASH, PROTRUSIONS, OR GATE BURRS.

| DIM | INCHES | | MILLIMETERS | |
|-----|-----------|-------|-------------|------|
| | MIN | MAX | MIN | MAX |
| A | 0.071 | 0.087 | 1.80 | 2.20 |
| B | 0.045 | 0.053 | 1.15 | 1.35 |
| C | 0.031 | 0.043 | 0.80 | 1.10 |
| D | 0.004 | 0.012 | 0.10 | 0.30 |
| G | 0.026 BSC | | 0.65 BSC | |
| H | --- | 0.004 | --- | 0.10 |
| J | 0.004 | 0.010 | 0.10 | 0.25 |
| K | 0.004 | 0.012 | 0.10 | 0.30 |
| N | 0.008 REF | | 0.20 REF | |
| S | 0.079 | 0.087 | 2.00 | 2.20 |

GENERIC MARKING DIAGRAM*



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

(Note: Microdot may be in either location)

*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.

- | | | | | |
|--|--|--|--|--|
| <p>STYLE 1: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 5. COLLECTOR</p> | <p>STYLE 2: PIN 1. ANODE 2. EMITTER 3. BASE 4. COLLECTOR 5. CATHODE</p> | <p>STYLE 3: PIN 1. ANODE 1 2. N/C 3. ANODE 2 4. CATHODE 2 5. CATHODE 1</p> | <p>STYLE 4: PIN 1. SOURCE 1 2. DRAIN 1/2 3. SOURCE 1 4. GATE 1 5. GATE 2</p> | <p>STYLE 5: PIN 1. CATHODE 2. COMMON ANODE 3. CATHODE 2 4. CATHODE 3 5. CATHODE 4</p> |
| <p>STYLE 6: PIN 1. EMITTER 2 2. BASE 2 3. EMITTER 1 4. COLLECTOR 5. COLLECTOR 2/BASE 1</p> | <p>STYLE 7: PIN 1. BASE 2. EMITTER 3. BASE 4. COLLECTOR 5. COLLECTOR</p> | <p>STYLE 8: PIN 1. CATHODE 2. COLLECTOR 3. N/C 4. BASE 5. EMITTER</p> | <p>STYLE 9: PIN 1. ANODE 2. CATHODE 3. ANODE 4. ANODE 5. ANODE</p> | <p>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.</p> |

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MECHANICAL CASE OUTLINE

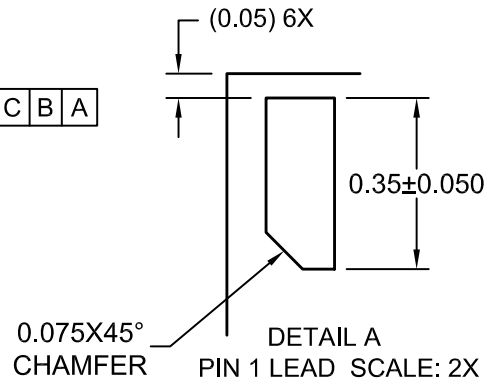
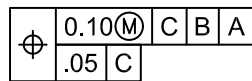
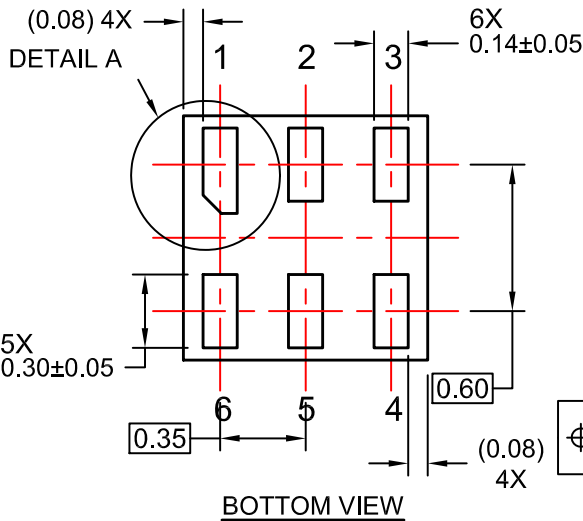
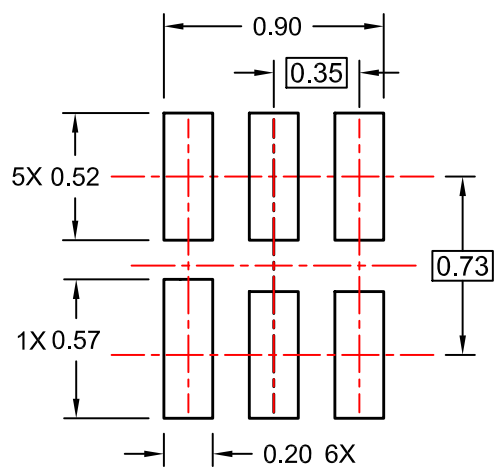
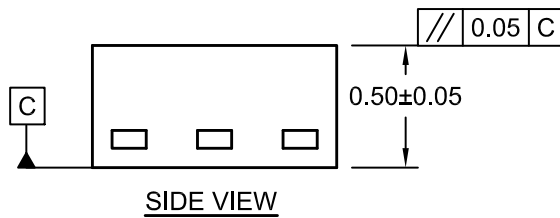
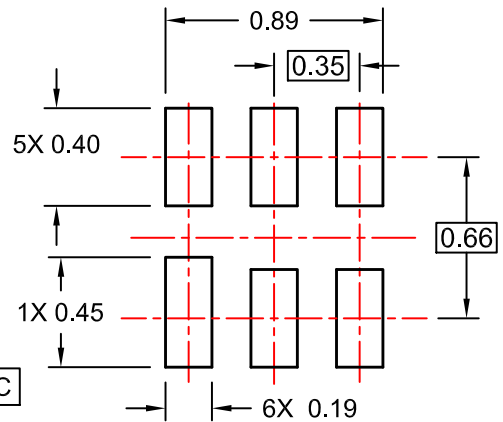
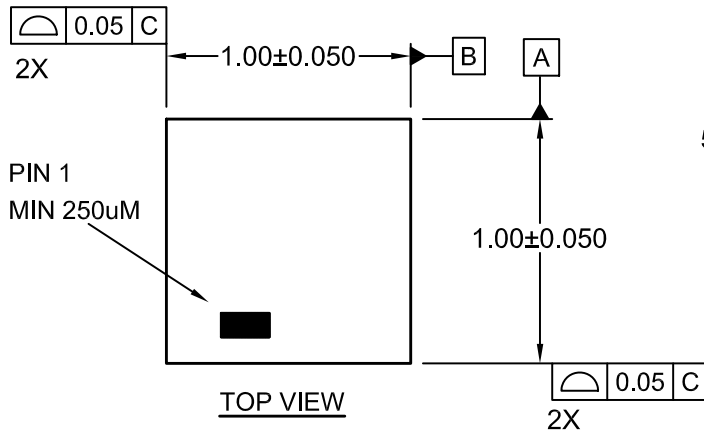
PACKAGE DIMENSIONS

ON Semiconductor®



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

DATE 31 AUG 2016



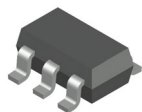
- NOTES:
- A. COMPLIES TO JEDEC MO-252 STANDARD
 - B. DIMENSIONS ARE IN MILLIMETERS.
 - C. DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 2009

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

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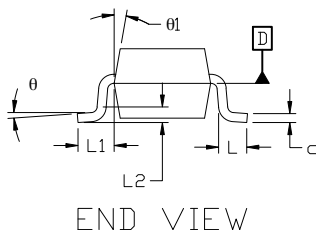
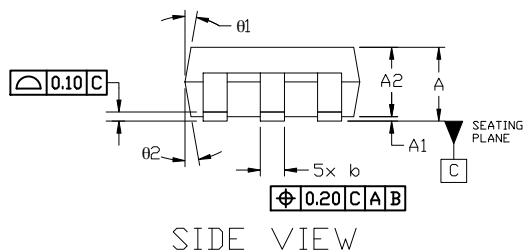
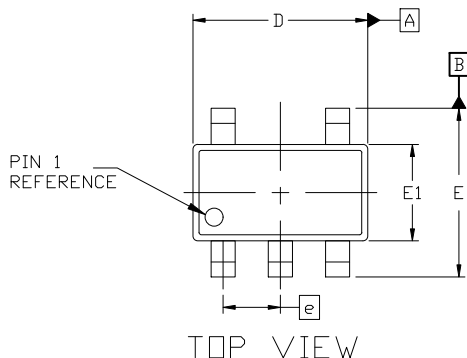
MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS

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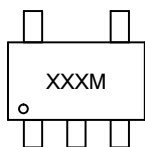


SOT-23, 5 Lead CASE 527AH ISSUE A

DATE 09 JUN 2021



GENERIC MARKING DIAGRAM*



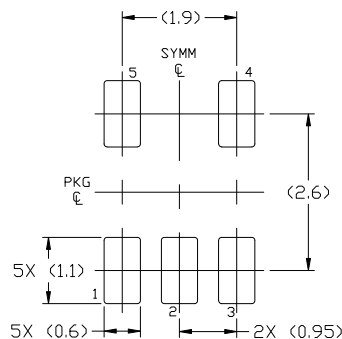
XXX = Specific Device Code
M = Date Code

*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, 1989A
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 | | |
| theta | 0° | 4° | 8° |
| theta1 | 0° | 10° | 15° |
| theta2 | 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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| DESCRIPTION: | SOT-23, 5 LEAD | PAGE 1 OF 1 |

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