

MC74AC157, MC74ACT157

Quad 2-Input Multiplexer

The MC74AC157/74ACT157 is a high-speed quad 2-input multiplexer. Four bits of data from two sources can be selected using the common Select and Enable inputs. The four outputs present the selected data in the true (non-inverted) form.

The MC74AC157/74ACT157 can also be used as a function generator.

Features

- Outputs Source/Sink 24 mA
- 'ACT157 Has TTL Compatible Inputs
- These are Pb-Free Devices

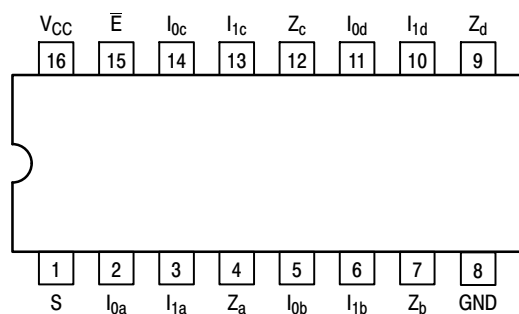


Figure 1. Pinout: 16-Lead Packages Conductors (Top View)

TRUTH TABLE

| Inputs | | | | Outputs |
|--------|---|----------------|----------------|---------|
| E | S | I ₀ | I ₁ | Z |
| H | X | X | X | L |
| L | H | X | L | L |
| L | H | X | H | H |
| L | L | L | X | L |
| L | L | H | X | H |

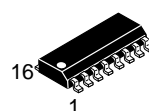
H = HIGH Voltage Level
L = LOW Voltage Level
X = Immaterial



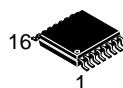
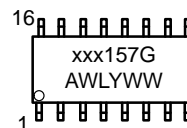
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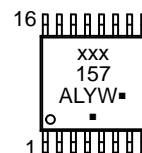
MARKING DIAGRAMS



SOIC-16
D SUFFIX
CASE 751B



TSSOP-16
DT SUFFIX
CASE 948F



xxx = AC or ACT
A = Assembly Location
WL or L = Wafer Lot
Y = Year
WW or W = Work Week
G or ■ = Pb-Free Package

(Note: Microdot may be in either location)

PIN NAMES

| PIN | FUNCTION |
|----------------------------------|----------------------|
| I _{0a} -I _{0d} | Source 0 Data Inputs |
| I _{1a} -I _{1d} | Source 0 Data Inputs |
| E | Enable Input |
| S | Select Input |
| Z _a -Z _d | Outputs |

ORDERING INFORMATION

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

MC74AC157, MC74ACT157

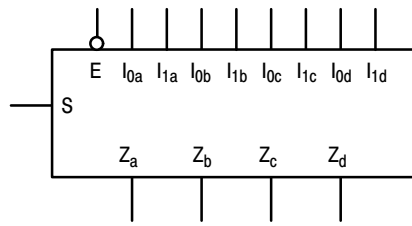


Figure 2. Logic Symbol

FUNCTIONAL DESCRIPTION

The MC74AC157/74ACT157 is a quad 2-input multiplexer. It selects four bits of data from two sources under the control of a common Select input (S). The Enable input (\bar{E}) is active-LOW. When \bar{E} is HIGH, all of the outputs (Z) are forced LOW regardless of all other inputs. The MC74AC157/74ACT157 is the logic implementation of a 4-pole, 2-position switch where the position of the switch is determined by the logic levels supplied to the Select input. The logic equations for the outputs are shown below:

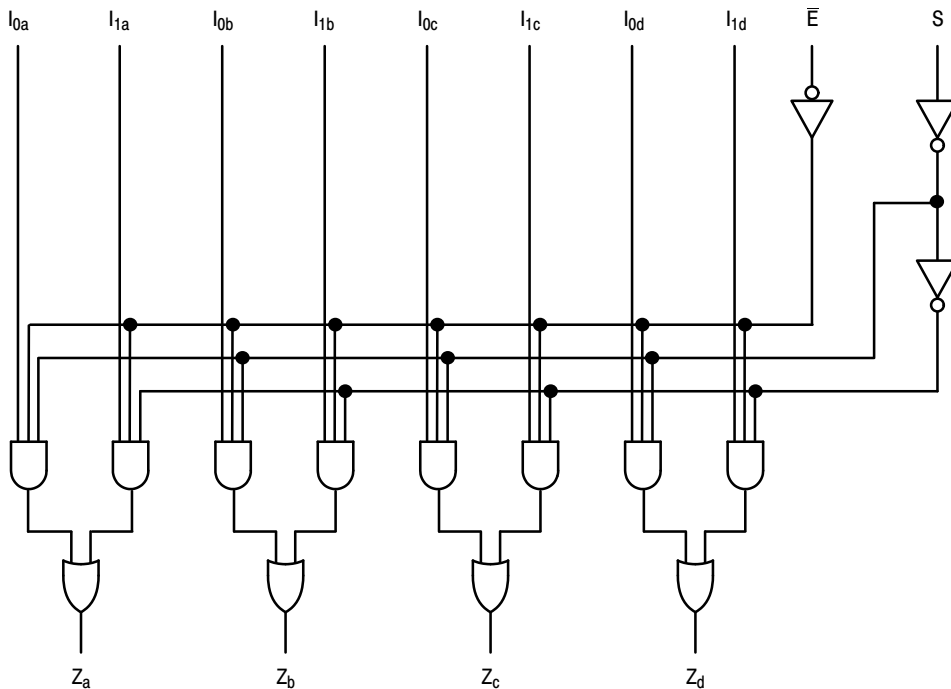
$$Z_a = \bar{E} \cdot (I_{1a} \cdot S + I_{0a} \cdot \bar{S})$$

$$Z_b = \bar{E} \cdot (I_{1b} \cdot S + I_{0b} \cdot \bar{S})$$

$$Z_c = \bar{E} \cdot (I_{1c} \cdot S + I_{0c} \cdot \bar{S})$$

$$Z_d = \bar{E} \cdot (I_{1d} \cdot S + I_{0d} \cdot \bar{S})$$

A common use of the MC74AC157/74ACT157 is the moving of data from two groups of registers to four common output busses. The particular register from which the data comes is determined by the state of the Select input. A less obvious use is as a function generator. The MC74AC157/74ACT157 can generate any four of the sixteen different functions of two variables with one variable common. This is useful for implementing gating functions.



NOTE: This diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 3. Logic Diagram

MC74AC157, MC74ACT157

MAXIMUM RATINGS

| Symbol | Parameter | Value | Unit |
|-----------------------|---|---|------|
| V _{CC} | DC Supply Voltage | -0.5 to +7.0 | V |
| V _I | DC Input Voltage | -0.5 ≤ V _I ≤ V _{CC} + 0.5 | V |
| V _O | DC Output Voltage (Note 1) | -0.5 ≤ V _O ≤ V _{CC} + 0.5 | V |
| I _{IK} | DC Input Diode Current | ±20 | mA |
| I _{OK} | DC Output Diode Current | ±50 | mA |
| I _O | DC Output Sink/Source Current | ±50 | mA |
| I _{CC} | DC Supply Current per Output Pin | ±50 | mA |
| I _{GND} | DC Ground Current per Output 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) | SOIC TSSOP 69.1 103.8 | °C/W |
| P _D | Power Dissipation in Still Air at 65°C (Note 3) | SOIC TSSOP 500 500 | mW |
| MSL | Moisture Sensitivity | Level 1 | |
| F _R | Flammability Rating | Oxygen Index: 30% – 35% UL 94 V-0 @ 0.125 in | |
| V _{ESD} | ESD Withstand Voltage | Human Body Model (Note 4) Machine Model (Note 5) Charged Device Model (Note 6) > 2000 > 200 > 1000 | V |
| I _{Latch-Up} | Latch-Up Performance Above V _{CC} and Below GND at 85°C (Note 7) | ±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. I_O absolute maximum rating must be observed.
2. The package thermal impedance is calculated in accordance with JEDEC51-7.
3. 500 mW at 65°C; derate to 300 mW by 10 mW/ from 65°C to 85°C.
4. Tested to EIA/JESD22-A114-A.
5. Tested to EIA/JESD22-A115-A.
6. Tested to JESD22-C101-A.
7. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Typ | Max | Unit | |
|------------------------------------|---|-------------------------|-----|-----------------|------|------|
| V _{CC} | Supply Voltage | 'AC | 2.0 | 5.0 | 6.0 | V |
| | | 'ACT | 4.5 | 5.0 | 5.5 | |
| V _{IN} , V _{OUT} | DC Input Voltage, Output Voltage (Ref. to GND) | 0 | - | V _{CC} | V | |
| t _r , t _f | Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs | V _{CC} @ 3.0 V | - | 150 | - | ns/V |
| | | V _{CC} @ 4.5 V | - | 40 | - | |
| | | V _{CC} @ 5.5 V | - | 25 | - | |
| t _r , t _f | Input Rise and Fall Time (Note 2) 'ACT Devices except Schmitt Inputs | V _{CC} @ 4.5 V | - | 10 | - | ns/V |
| | | V _{CC} @ 5.5 V | - | 8.0 | - | |
| T _J | Junction Temperature (PDIP) | - | - | 140 | °C | |
| T _A | Operating Ambient Temperature Range | -40 | 25 | 85 | °C | |
| I _{OH} | Output Current – High | - | - | -24 | mA | |
| I _{OL} | Output Current – Low | - | - | 24 | mA | |

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. V_{IN} from 30% to 70% V_{CC}; see individual Data Sheets for devices that differ from the typical input rise and fall times.
2. V_{IN} from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

MC74AC157, MC74ACT157

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74AC | | 74AC | | Unit | Conditions | | | | |
|------------------|-----------------------------------|------------------------|------------------------|-------------------|---------------------------------|--|---|---|------|-------------------------------|------|-----|
| | | | T _A = +25°C | | T _A = -40°C to +85°C | | | | | | | |
| | | | Typ | Guaranteed Limits | | | | | | | | |
| V _{IH} | Minimum High Level Input Voltage | 3.0 | 1.5 | 2.1 | 2.1 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V | | | | |
| | | 4.5 | 2.25 | 3.15 | 3.15 | | | | | | | |
| | | 5.5 | 2.75 | 3.85 | 3.85 | | | | | | | |
| V _{IL} | Maximum Low Level Input Voltage | 3.0 | 1.5 | 0.9 | 0.9 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V | | | | |
| | | 4.5 | 2.25 | 1.35 | 1.35 | | | | | | | |
| | | 5.5 | 2.75 | 1.65 | 1.65 | | | | | | | |
| V _{OH} | Minimum High Level Output Voltage | 3.0 | 2.99 | 2.9 | 2.9 | | V | I _{OUT} = -50 μA | | | | |
| | | 4.5 | 4.49 | 4.4 | 4.4 | | | | | | | |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | | | | | |
| | 3.0 | - | 2.56 | 2.46 | | V | *V _{IN} = V _{IL} or V _{IH} -12 mA | | | | | |
| | | | | | | | | 4.5 | - | 3.86 | 3.76 | |
| | | | | | | | | | | | | |
| I _{OH} | -24 mA | -24 mA | | | | | | | | | | |
| | | | | 5.5 | - | 4.76 | | | | | | |
| | | | | | | | | 4.76 | | | | |
| V _{OL} | Maximum Low Level Output Voltage | 3.0 | 0.002 | | | | | | | 0.1 | 0.1 | |
| | | 4.5 | 0.001 | 0.1 | 0.1 | | | | | | | |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | | | | | |
| 3.0 | - | 0.36 | 0.44 | | V | *V _{IN} = V _{IL} or V _{IH} 12 mA | | | | | | |
| | | | | | | | 4.5 | - | 0.36 | 0.44 | | |
| | | | | | | | | | | | | 5.5 |
| I _{OL} | 24 mA | 24 mA | | | | | | | | | | |
| | | | | 5.5 | - | 0.44 | | | | | | |
| | | | | | | | | 0.44 | | | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | - | | | | | | | ±0.1 | ±1.0 | |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | - | - | 75 | | mA | | | V _{OLD} = 1.65 V Max | | |
| I _{OHD} | | 5.5 | - | - | -75 | | mA | V _{OHD} = 3.85 V Min | | | | |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | - | 8.0 | 80 | | μA | V _{IN} = V _{CC} or GND | | | | |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

NOTE: I_{IN} and I_{CC} @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V_{CC}.

AC CHARACTERISTICS (For Figures and Waveforms – See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

| Symbol | Parameter | V _{CC} * (V) | 74AC | | | 74AC | | Unit | Fig. No. |
|------------------|--|--------------------------|--|-----|------|---|------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| t _{PLH} | Propagation Delay S to Z _n | 3.3 | 1.5 | 7.0 | 11.5 | 1.5 | 13.0 | ns | 3-6 |
| | | 5.0 | 1.5 | 5.5 | 9.0 | 1.5 | 10.0 | | |
| t _{PHL} | Propagation Delay S to Z _n | 3.3 | 1.5 | 6.5 | 11.0 | 1.5 | 12.0 | ns | 3-6 |
| | | 5.0 | 1.5 | 5.0 | 8.5 | 1.0 | 9.5 | | |
| t _{PLH} | Propagation Delay \bar{E} to Z _n | 3.3 | 1.5 | 7.0 | 11.5 | 1.5 | 13.0 | ns | 3-6 |
| | | 5.0 | 1.5 | 5.5 | 9.0 | 1.5 | 10.0 | | |
| t _{PHL} | Propagation Delay \bar{E}_n to Z _n | 3.3 | 1.5 | 6.5 | 11.0 | 1.5 | 12 | ns | 3-6 |
| | | 5.0 | 1.5 | 5.5 | 9.0 | 1.0 | 9.5 | | |
| t _{PLH} | Propagation Delay I _n to Z _n | 3.3 | 1.5 | 5.0 | 8.5 | 1.0 | 9.0 | ns | 3-5 |
| | | 5.0 | 1.5 | 4.0 | 6.5 | 1.0 | 7.0 | | |
| t _{PHL} | Propagation Delay I _n to Z _n | 3.3 | 1.5 | 5.0 | 8.0 | 1.0 | 9.0 | ns | 3-5 |
| | | 5.0 | 1.5 | 4.0 | 6.5 | 1.0 | 7.0 | | |

*Voltage Range 3.3 V is 3.3 V ±0.3 V.

*Voltage Range 5.0 V is 5.0 V ±0.5 V.

MC74AC157, MC74ACT157

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74ACT | | 74ACT | | Unit | Conditions |
|-------------------|--|------------------------|------------------------|-------------------|---------------------------------|--|------|---|
| | | | T _A = +25°C | | T _A = -40°C to +85°C | | | |
| | | | Typ | Guaranteed Limits | | | | |
| V _{IH} | Minimum High Level Input Voltage | 4.5 | 1.5 | 2.0 | 2.0 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 5.5 | 1.5 | 2.0 | 2.0 | | | |
| V _{IL} | Maximum Low Level Input Voltage | 4.5 | 1.5 | 0.8 | 0.8 | | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V |
| | | 5.5 | 1.5 | 0.8 | 0.8 | | | |
| V _{OH} | Minimum High Level Output Voltage | 4.5 | 4.49 | 4.4 | 4.4 | | V | I _{OUT} = -50 μA |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | |
| | | 4.5 | - | 3.86 | 3.76 | | V | *V _{IN} = V _{IL} or V _{IH} -24 mA I _{OH} -24 mA |
| | | 5.5 | - | 4.86 | 4.76 | | | |
| V _{OL} | Maximum Low Level Output Voltage | 4.5 | 0.001 | 0.1 | 0.1 | | V | I _{OUT} = 50 μA |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | |
| | | 4.5 | - | 0.36 | 0.44 | | V | *V _{IN} = V _{IL} or V _{IH} 24 mA I _{OL} 24 mA |
| | | 5.5 | - | 0.36 | 0.44 | | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | - | ±0.1 | ±1.0 | | μA | V _I = V _{CC} , GND |
| ΔI _{CCT} | Additional Max. I _{CC} /Input | 5.5 | 0.6 | - | 1.5 | | mA | V _I = V _{CC} - 2.1 V |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | - | - | 75 | | mA | V _{OLD} = 1.65 V Max |
| I _{OHD} | | 5.5 | - | - | -75 | | mA | V _{OHD} = 3.85 V Min |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | - | 8.0 | 80 | | μA | V _{IN} = V _{CC} or GND |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

AC CHARACTERISTICS (For Figures and Waveforms – See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

| Symbol | Parameter | V _{CC} * (V) | 74ACT | | | 74ACT | | Unit | Fig. No. |
|------------------|--|--------------------------|--|-----|-----|---|------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| t _{PLH} | Propagation Delay S to Z _n | 5.0 | 2.0 | - | 9.0 | 1.5 | 10.0 | ns | 3-6 |
| t _{PHL} | Propagation Delay S to Z _n | 5.0 | 2.0 | - | 9.5 | 2.0 | 10.5 | ns | 3-6 |
| t _{PLH} | Propagation Delay E _n to Z _n | 5.0 | 1.5 | - | 10 | 1.5 | 11.5 | ns | 3-6 |
| t _{PHL} | Propagation Delay E _n to Z _n | 5.0 | 1.5 | - | 8.5 | 1.0 | 9.0 | ns | 3-6 |
| t _{PLH} | Propagation Delay I _n to Z _n | 5.0 | 1.5 | - | 7.0 | 1.0 | 8.5 | ns | 3-5 |
| t _{PHL} | Propagation Delay I _n to Z _n | 5.0 | 1.5 | - | 7.5 | 1.0 | 8.5 | ns | 3-5 |

*Voltage Range 5.0 V is 5.0 V ±0.5 V.

CAPACITANCE

| Symbol | Parameter | Value – Typ | Unit | Test Conditions |
|-----------------|-------------------------------|-------------|------|-------------------------|
| C _{IN} | Input Capacitance | 4.5 | pF | V _{CC} = 5.0 V |
| C _{PD} | Power Dissipation Capacitance | 50 | pF | V _{CC} = 5.0 V |

MC74AC157, MC74ACT157

ORDERING INFORMATION

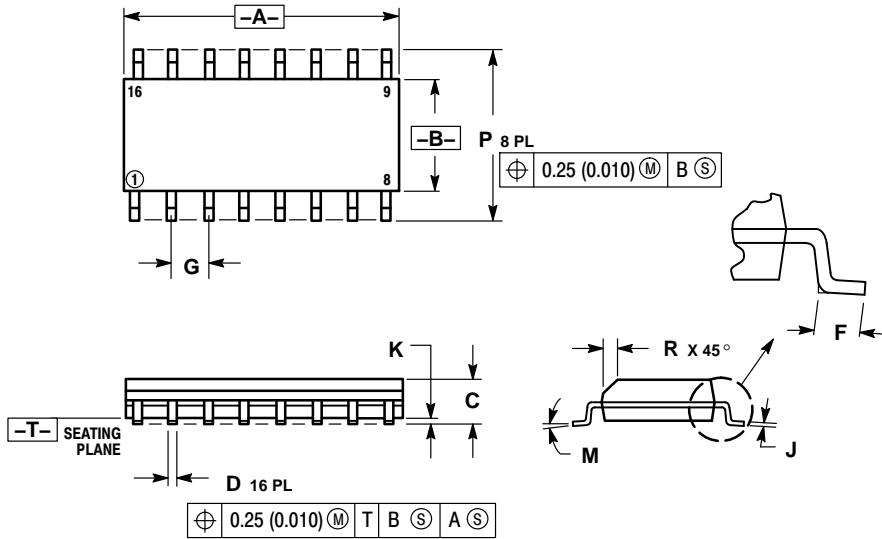
| Device Order Number | Package | Shipping† |
|---------------------|-----------------------|------------------|
| MC74AC157DG | SOIC-16 (Pb-Free) | 48 Units / Rail |
| MC74AC157DR2G | SOIC-16 (Pb-Free) | 2500 Tape & Reel |
| MC74AC157DTR2G | TSSOP-16 (Pb-Free) | 2500 Tape & Reel |
| MC74ACT157DG | SOIC-16 (Pb-Free) | 48 Units / Rail |
| MC74ACT157DR2G | SOIC-16 (Pb-Free) | 2500 Tape & Reel |
| MC74ACT157DTR2G | TSSOP-16 (Pb-Free) | 2500 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.

MC74AC157, MC74ACT157

PACKAGE DIMENSIONS

SOIC-16
D SUFFIX
CASE 751B-05
ISSUE K

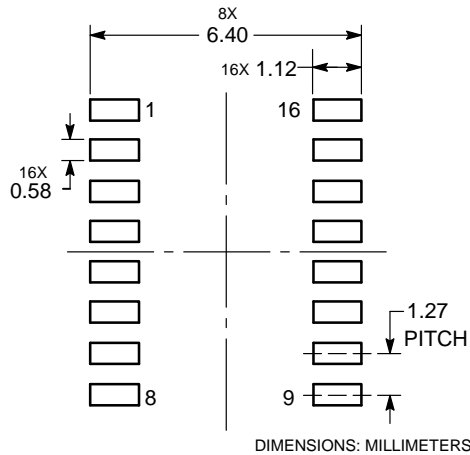


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSIONS A AND B DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15 (0.006) PER SIDE.
5. DIMENSION D DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127 (0.005) TOTAL IN EXCESS OF THE D DIMENSION AT MAXIMUM MATERIAL CONDITION.

| MILLIMETERS | | INCHES | | |
|-------------|----------|--------|-----------|-------|
| DIM | MIN | MAX | MIN | MAX |
| A | 9.80 | 10.00 | 0.386 | 0.393 |
| B | 3.80 | 4.00 | 0.150 | 0.157 |
| C | 1.35 | 1.75 | 0.054 | 0.068 |
| D | 0.35 | 0.49 | 0.014 | 0.019 |
| F | 0.40 | 1.25 | 0.016 | 0.049 |
| G | 1.27 BSC | | 0.050 BSC | |
| J | 0.19 | 0.25 | 0.008 | 0.009 |
| K | 0.10 | 0.25 | 0.004 | 0.009 |
| M | 0° | 7° | 0° | 7° |
| P | 5.80 | 6.20 | 0.229 | 0.244 |
| R | 0.25 | 0.50 | 0.010 | 0.019 |

SOLDERING FOOTPRINT*

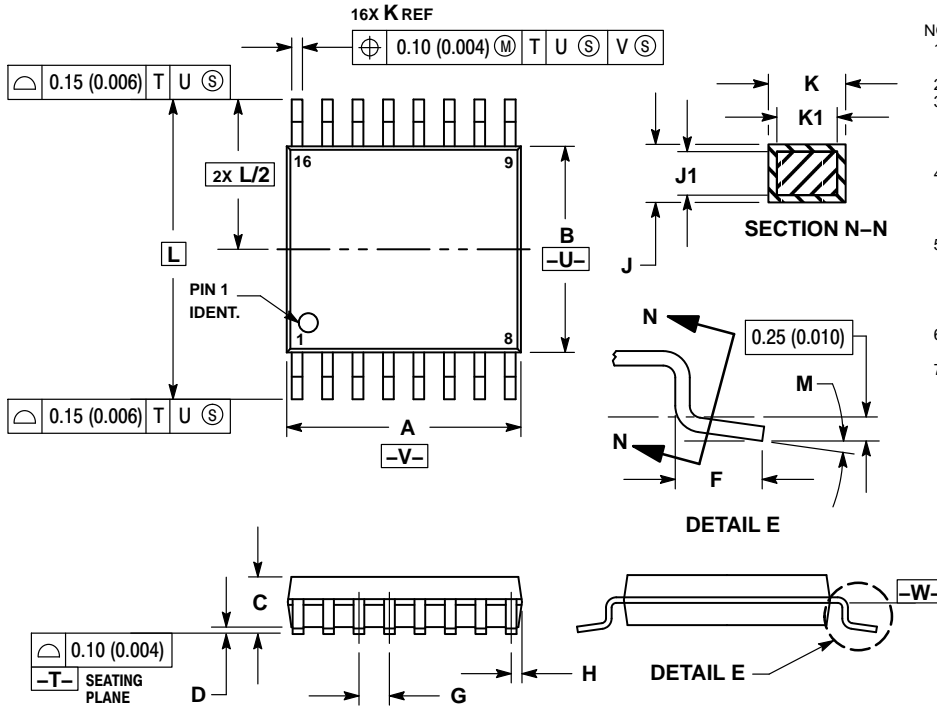


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MC74AC157, MC74ACT157

PACKAGE DIMENSIONS

TSSOP-16
DT SUFFIX
CASE 948F
ISSUE B

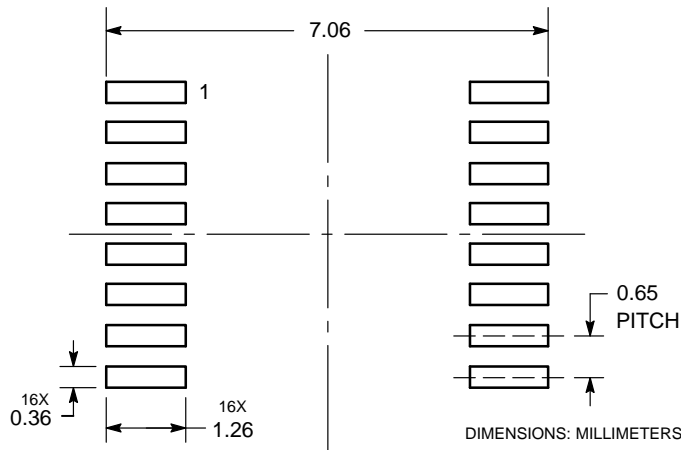


NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION A DOES NOT INCLUDE MOLD FLASH. PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.


| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 4.90 | 5.10 | 0.193 | 0.200 |
| B | 4.30 | 4.50 | 0.169 | 0.177 |
| C | --- | 1.20 | --- | 0.047 |
| D | 0.05 | 0.15 | 0.002 | 0.006 |
| F | 0.50 | 0.75 | 0.020 | 0.030 |
| G | 0.65 BSC | | 0.026 BSC | |
| H | 0.18 | 0.28 | 0.007 | 0.011 |
| J | 0.09 | 0.20 | 0.004 | 0.008 |
| J1 | 0.09 | 0.16 | 0.004 | 0.006 |
| K | 0.19 | 0.30 | 0.007 | 0.012 |
| K1 | 0.19 | 0.25 | 0.007 | 0.010 |
| L | 6.40 BSC | | 0.252 BSC | |
| M | 0° | 8° | 0° | 8° |

SOLDERING 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.

MC74AC157, MC74ACT157

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