

# MC74VHC125

## Quad Bus Buffer with 3-State Control Inputs

The MC74VHC125 is a high speed CMOS quad bus buffer fabricated with silicon gate CMOS technology. It achieves high speed operation similar to equivalent Bipolar Schottky TTL while maintaining CMOS low power dissipation.

The MC74VHC125 requires the 3-state control input ( $\overline{OE}$ ) to be set High to place the output into the high impedance state.

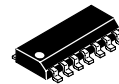
The internal circuit is composed of three stages, including a buffer output which provides high noise immunity and stable output. The inputs tolerate voltages up to 7 V, allowing the interface of 5 V systems to 3 V systems.

- High Speed:  $t_{PD} = 3.8\text{ns}$  (Typ) at  $V_{CC} = 5\text{V}$
- Low Power Dissipation:  $I_{CC} = 4\ \mu\text{A}$  (Max) at  $T_A = 25^\circ\text{C}$
- High Noise Immunity:  $V_{NIH} = V_{NIL} = 28\% V_{CC}$
- Power Down Protection Provided on Inputs
- Balanced Propagation Delays
- Designed for 2 V to 5.5 V Operating Range
- Low Noise:  $V_{OLP} = 0.8\text{V}$  (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300 mA
- ESD Performance: Human Body Model;  $> 2000\text{V}$ ,  
Machine Model;  $> 200\text{V}$
- Chip Complexity: 72 FETs or 18 Equivalent Gates
- **These devices are available in Pb-free package(s). Specifications herein apply to both standard and Pb-free devices. Please see our website at [www.onsemi.com](http://www.onsemi.com) for specific Pb-free orderable part numbers, or contact your local ON Semiconductor sales office or representative.**

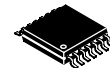


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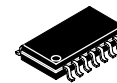
<http://onsemi.com>



14-LEAD SOIC  
D SUFFIX  
CASE 751A

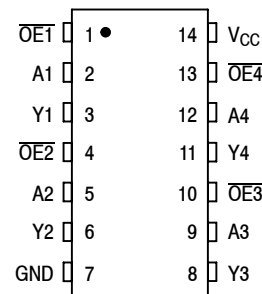


14-LEAD TSSOP  
DT SUFFIX  
CASE 948G



14-LEAD SOIC EIAJ  
M SUFFIX  
CASE 965

### PIN CONNECTION AND MARKING DIAGRAM (Top View)



### DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 6 of this data sheet.

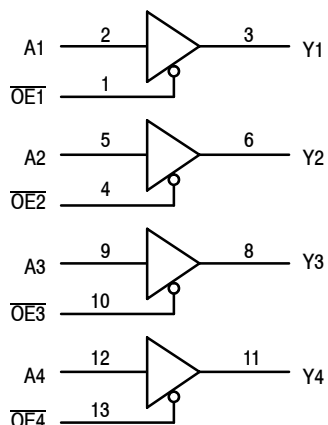
### ORDERING INFORMATION

| Device       | Package   | Shipping      |
|--------------|-----------|---------------|
| MC74VHC125D  | SOIC      | 55 Units/Rail |
| MC74VHC125DT | TSSOP     | 96 Units/Rail |
| MC74VHC125M  | SOIC EIAJ | 50 Units/Rail |

# MC74VHC125

## LOGIC DIAGRAM

### Active-Low Output Enables



## FUNCTION TABLE

| VHC125 |                 |        |
|--------|-----------------|--------|
| Inputs |                 | Output |
| A      | $\overline{OE}$ | Y      |
| H      | L               | H      |
| L      | L               | L      |
| X      | H               | Z      |

## MAXIMUM RATINGS\*

| Symbol    | Parameter  | Value                  | Unit |
|-----------|--|------------------------|------|
| $V_{CC}$  | DC Supply Voltage  | -0.5 to +7.0           | V    |
| $V_{in}$  | DC Input Voltage   | -0.5 to +7.0           | V    |
| $V_{out}$ | DC Output Voltage  | -0.5 to $V_{CC} + 0.5$ | V    |
| $I_{IK}$  | Input Diode Current  | - 20                   | mA   |
| $I_{OK}$  | Output Diode Current   | $\pm 20$               | mA   |
| $I_{out}$ | DC Output Current, per Pin                                       | $\pm 25$               | mA   |
| $I_{CC}$  | DC Supply Current, $V_{CC}$ and GND Pins                         | $\pm 50$               | mA   |
| $P_D$     | Power Dissipation in Still Air, SOIC Packages†<br>TSSOP Package† | 500<br>450             | mW   |
| $T_{stg}$ | Storage Temperature  | -65 to +150            | °C   |

This device contains protection circuitry to guard against damage due to high static voltages or electric fields. However, precautions must be taken to avoid applications of any voltage higher than maximum rated voltages to this high-impedance circuit. For proper operation,  $V_{in}$  and  $V_{out}$  should be constrained to the range  $GND \leq (V_{in} \text{ or } V_{out}) \leq V_{CC}$ . Unused inputs must always be tied to an appropriate logic voltage level (e.g., either GND or  $V_{CC}$ ). Unused outputs must be left open.

\*\* Absolute maximum continuous ratings are those values beyond which damage to the device may occur. Exposure to these conditions or conditions beyond those indicated may adversely affect device reliability. Functional operation under absolute-maximum-rated conditions is not implied.

† Derating - SOIC Packages: - 7 mW/°C from 65° to 125°C  
TSSOP Package: - 6.1 mW/°C from 65° to 125°C

## RECOMMENDED OPERATING CONDITIONS

| Symbol     | Parameter  | Min    | Max       | Unit |
|------------|--|--------|-----------|------|
| $V_{CC}$   | DC Supply Voltage  | 2.0    | 5.5       | V    |
| $V_{in}$   | DC Input Voltage   | 0      | 5.5       | V    |
| $V_{out}$  | DC Output Voltage  | 0      | $V_{CC}$  | V    |
| $T_A$      | Operating Temperature, All Package Types   | -55    | +125      | °C   |
| $t_r, t_f$ | Input Rise and Fall Time<br>$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$<br>$V_{CC} = 5.0 \text{ V} \pm 0.5 \text{ V}$ | 0<br>0 | 100<br>20 | ns/V |

# MC74VHC125

## DC ELECTRICAL CHARACTERISTICS

| Symbol          | Parameter   | Test Conditions  | V <sub>CC</sub><br>(V) | T <sub>A</sub> = 25°C |      |           | T <sub>A</sub> ≤ 85°C |      | T <sub>A</sub> ≤ 125°C |      | Unit |
|-----------------|---|--|------------------------|-----------------------|------|-----------|-----------------------|------|------------------------|------|------|
|                 |   |  |                        | Min                   | Typ  | Max       | Min                   | Max  | Min                    | Max  |      |
| V <sub>IH</sub> | Minimum High-Level Input Voltage  |  | 2.0                    | 1.5                   |      |           | 1.5                   |      | 1.5                    |      | V    |
|                 |   |  | 3.0                    | 2.1                   |      |           | 2.1                   |      | 2.1                    |      |      |
|                 |   |  | 4.5                    | 3.15                  |      |           | 3.15                  |      | 3.15                   |      |      |
|                 |   |  | 5.5                    | 3.85                  |      |           | 3.85                  |      | 3.85                   |      |      |
| V <sub>IL</sub> | Maximum Low-Level Input Voltage   |  | 2.0                    |                       |      | 0.5       |                       | 0.5  |                        | 0.5  | V    |
|                 |   |  | 3.0                    |                       |      | 0.9       |                       | 0.9  |                        | 0.9  |      |
|                 |   |  | 4.5                    |                       |      | 1.35      |                       | 1.35 |                        | 1.35 |      |
|                 |   |  | 5.5                    |                       |      | 1.65      |                       | 1.65 |                        | 1.65 |      |
| V <sub>OH</sub> | Minimum High-Level Output Voltage<br>V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OH</sub> = -50 μA                           | 2.0                    | 1.9                   | 2.0  |           | 1.9                   |      | 1.9                    |      | V    |
|                 |   | 3.0  | 2.9                    | 3.0                   |      | 2.9       |                       | 2.9  |                        |      |      |
|                 |   | 4.5  | 4.4                    | 4.5                   |      | 4.4       |                       | 4.4  |                        | 4.4  |      |
|                 |   | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OH</sub> = -4 mA<br>I <sub>OH</sub> = -8 mA | 3.0                    | 2.58                  |      |           | 2.48                  |      | 2.34                   |      | V    |
| 4.5             | 3.94  |  |                        | 3.80                  |      | 3.66      |                       | 3.66 |                        |      |      |
| V <sub>OL</sub> | Maximum Low-Level Output Voltage<br>V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub>  | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OL</sub> = 50 μA                            | 2.0                    |                       | 0.0  | 0.1       |                       | 0.1  |                        | 0.1  | V    |
|                 |   | 3.0  |                        | 0.0                   | 0.1  |           | 0.1                   |      | 0.1                    |      |      |
|                 |   | 4.5  |                        | 0.0                   | 0.1  |           | 0.1                   |      | 0.1                    |      |      |
|                 |   | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>I <sub>OL</sub> = 4 mA<br>I <sub>OL</sub> = 8 mA   | 3.0                    |                       |      | 0.36      |                       | 0.44 |                        | 0.52 | V    |
| 4.5             |   |  | 0.36                   |                       | 0.44 |           | 0.52                  |      |                        |      |      |
| I <sub>OZ</sub> | Maximum 3-State Leakage Current   | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br>V <sub>OUT</sub> = V <sub>CC</sub> or GND          | 5.5                    |                       |      | ±0.2<br>5 |                       | ±2.5 |                        | ±2.5 | μA   |
| I <sub>IN</sub> | Maximum Input Leakage Current   | V <sub>IN</sub> = 5.5V or GND  | 0 to<br>5.5            |                       |      | ±0.1      |                       | ±1.0 |                        | ±1.0 | μA   |
| I <sub>CC</sub> | Maximum Quiescent Supply Current  | V <sub>IN</sub> = V <sub>CC</sub> or GND   | 5.5                    |                       |      | 4.0       |                       | 40   |                        | 40   | μA   |

# MC74VHC125

## AC ELECTRICAL CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns)

| Symbol                     | Parameter   | Test Conditions  | $T_A = 25^\circ\text{C}$ |     |      | $T_A = \leq 85^\circ\text{C}$ |      | $T_A = \leq 125^\circ\text{C}$ |      | Unit |
|----------------------------|---|--|--------------------------|-----|------|-------------------------------|------|--------------------------------|------|------|
|                            |   |  | Min                      | Typ | Max  | Min                           | Max  | Min                            | Max  |      |
| $t_{PLH}$ ,<br>$t_{PHL}$   | Maximum Propagation Delay,<br>A to Y                                    | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 15$ pF             |                          | 5.6 | 8.0  | 1.0                           | 9.5  | 1.0                            | 12.0 | ns   |
|                            |   | $C_L = 50$ pF  |                          | 8.1 | 11.5 | 1.0                           | 13.0 | 1.0                            | 16.0 |      |
|                            |   | $V_{CC} = 5.0 \pm 0.5\text{V}$ $C_L = 15$ pF             |                          | 3.8 | 5.5  | 1.0                           | 6.5  | 1.0                            | 8.5  |      |
|                            |   | $C_L = 50$ pF  |                          | 5.3 | 7.5  | 1.0                           | 8.5  | 1.0                            | 10.5 |      |
| $t_{PZL}$ ,<br>$t_{PZH}$   | Maximum Output Enable Time,<br>$\overline{\text{OE}}$ to Y              | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 15$ pF             |                          | 5.4 | 8.0  | 1.0                           | 9.5  | 1.0                            | 11.5 | ns   |
|                            |   | $R_L = 1$ k $\Omega$ $C_L = 50$ pF                       |                          | 7.9 | 11.5 | 1.0                           | 13.0 | 1.0                            | 15.0 |      |
|                            |   | $V_{CC} = 5.0 \pm 0.5\text{V}$ $C_L = 15$ pF             |                          | 3.6 | 5.1  | 1.0                           | 6.0  | 1.0                            | 7.5  |      |
|                            |   | $R_L = 1$ k $\Omega$ $C_L = 50$ pF                       |                          | 5.1 | 7.1  | 1.0                           | 8.0  | 1.0                            | 9.5  |      |
| $t_{PLZ}$ ,<br>$t_{PHZ}$   | Maximum Output Disable Time,<br>$\overline{\text{OE}}$ to Y             | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 50$ pF             |                          | 9.5 | 13.2 | 1.0                           | 15.0 | 1.0                            | 18.0 | ns   |
|                            |   | $R_L = 1$ k $\Omega$                                     |                          |     |      |                               |      |                                |      |      |
|                            |   | $V_{CC} = 5.0 \pm 0.5\text{V}$ $C_L = 50$ pF             |                          | 6.1 | 8.8  | 1.0                           | 10.0 | 1.0                            | 12.0 |      |
|                            |   | $R_L = 1$ k $\Omega$                                     |                          |     |      |                               |      |                                |      |      |
| $t_{OSLH}$ ,<br>$t_{OSHL}$ | Output-to-Output Skew   | $V_{CC} = 3.3 \pm 0.3\text{V}$ $C_L = 50$ pF<br>(Note 1) |                          |     | 1.5  |                               | 1.5  |                                | 1.5  | ns   |
|                            |   | $V_{CC} = 5.0 \pm 0.5\text{V}$ $C_L = 50$ pF<br>(Note 1) |                          |     | 1.0  |                               | 1.0  |                                | 1.0  |      |
| $C_{in}$                   | Maximum Input Capacitance   |  |                          | 4   | 10   |                               | 10   |                                | 10   | pF   |
| $C_{out}$                  | Maximum Three-State Output Capacitance (Output in High Impedance State) |  |                          | 6   |      |                               |      |                                |      | pF   |

| $C_{PD}$ | Power Dissipation Capacitance (Note 2) | Typical @ $25^\circ\text{C}$ , $V_{CC} = 5.0$ V |     | pF |
|----------|--|---|-----|----|
|          |  | Min   | Max |    |
|          |  |   | 14  |    |

- Parameter guaranteed by design.  $t_{OSLH} = |t_{PLHm} - t_{PLHn}|$ ,  $t_{OSHL} = |t_{PHLm} - t_{PHLn}|$ .
- $C_{PD}$  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:  $I_{CC(OPR)} = C_{PD} \cdot V_{CC} \cdot f_{in} + I_{CC}/4$  (per buffer).  $C_{PD}$  is used to determine the no-load dynamic power consumption;  $P_D = C_{PD} \cdot V_{CC}^2 \cdot f_{in} + I_{CC} \cdot V_{CC}$ .

## NOISE CHARACTERISTICS (Input $t_r = t_f = 3.0$ ns, $C_L = 50$ pF, $V_{CC} = 5.0$ V)

| Symbol    | Characteristic                           | $T_A = 25^\circ\text{C}$ |      | Unit |
|-----------|--|--------------------------|------|------|
|           |  | Typ                      | Max  |      |
| $V_{OLP}$ | Quiet Output Maximum Dynamic $V_{OL}$    | 0.3                      | 0.8  | V    |
| $V_{OLV}$ | Quiet Output Minimum Dynamic $V_{OL}$    | -0.3                     | -0.8 | V    |
| $V_{IHD}$ | Minimum High Level Dynamic Input Voltage |                          | 3.5  | V    |
| $V_{ILD}$ | Maximum Low Level Dynamic Input Voltage  |                          | 1.5  | V    |

# MC74VHC125

## SWITCHING WAVEFORMS

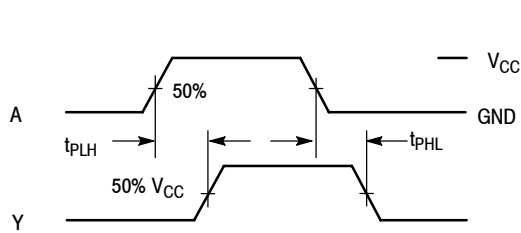


Figure 1.

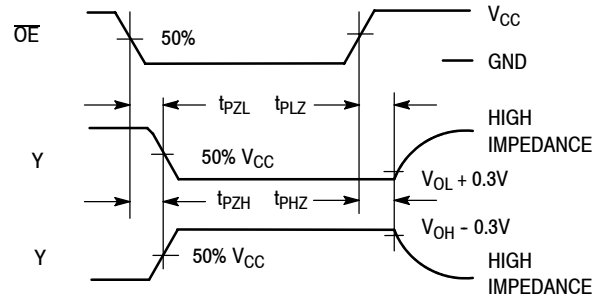
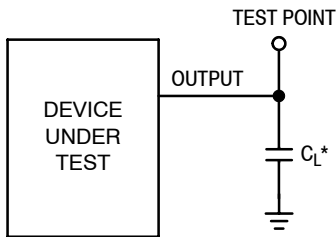
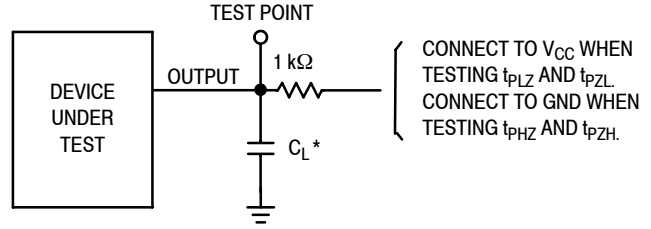


Figure 2.



\*Includes all probe and jig capacitance

Figure 3. Test Circuit



\*Includes all probe and jig capacitance

Figure 4. Test Circuit

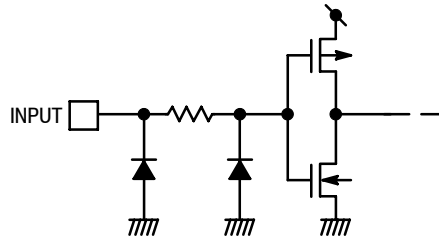
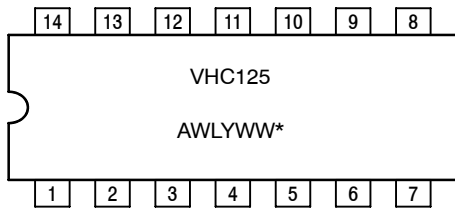


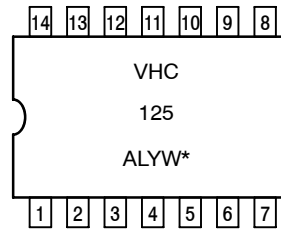
Figure 5. Input Equivalent Circuit

# MC74VHC125

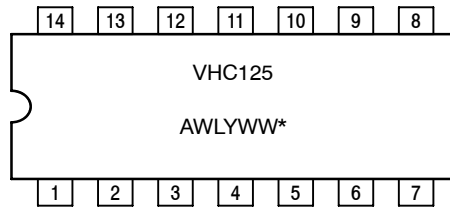
## MARKING DIAGRAMS (Top View)



**14-LEAD SOIC  
D SUFFIX  
CASE 751A**



**14-LEAD TSSOP  
DT SUFFIX  
CASE 948G**



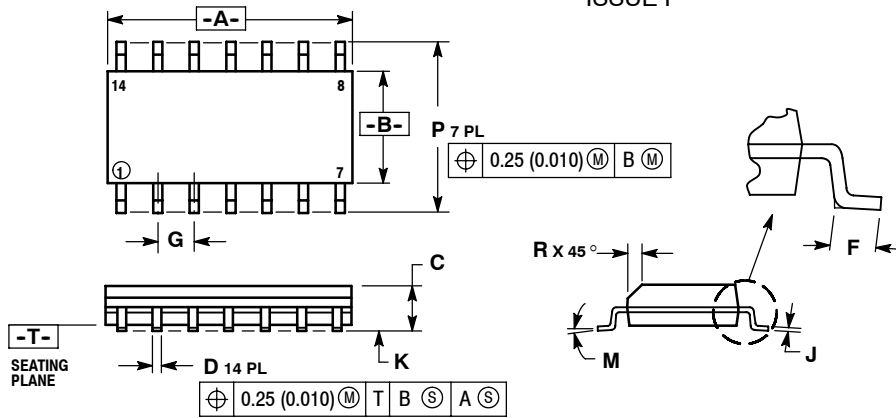
**14-LEAD SOIC EIAJ  
M SUFFIX  
CASE 965**

\*See Applications Note AND8004/D for date code and traceability information.

# MC74VHC125

## PACKAGE DIMENSIONS

### SOIC-14 D SUFFIX CASE 751A-3 ISSUE F

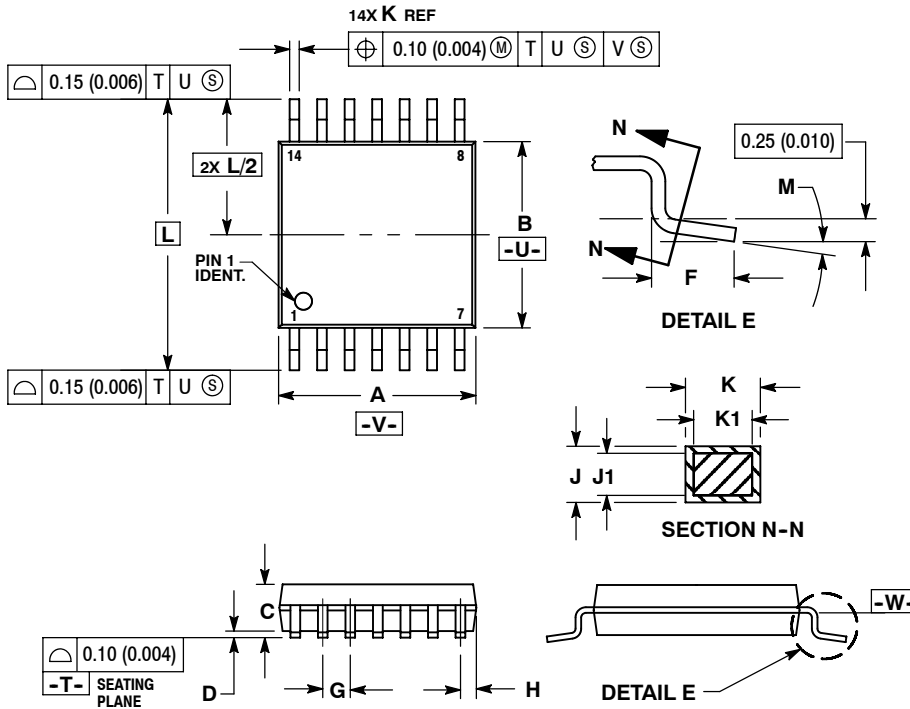


NOTES:

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.

| DIM | MILLIMETERS |      | INCHES    |       |
|-----|-------------|------|-----------|-------|
|     | MIN         | MAX  | MIN       | MAX   |
| A   | 8.55        | 8.75 | 0.337     | 0.344 |
| 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 | 0.228     | 0.244 |
| R   | 0.25        | 0.50 | 0.010     | 0.019 |

### TSSOP DT SUFFIX CASE 948G-01 ISSUE O



NOTES:

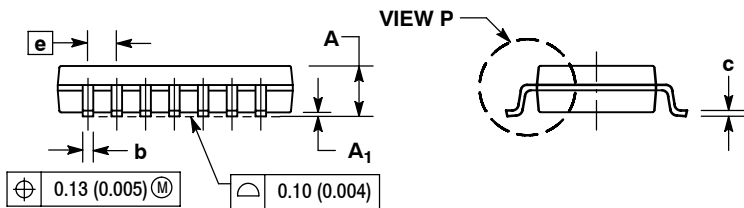
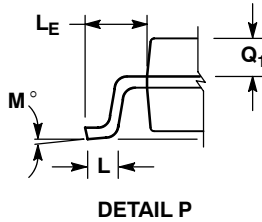
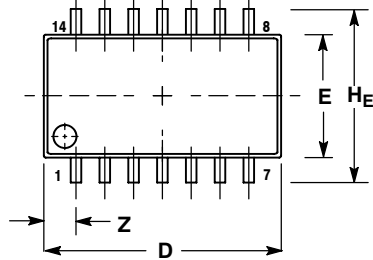
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD 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   | 0.50        | 0.60 | 0.020     | 0.024 |
| 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°    |

# MC74VHC125

## PACKAGE DIMENSIONS

### SO-14 M SUFFIX CASE 965-01 ISSUE O



#### NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
5. THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 (0.018).

| DIM            | MILLIMETERS |       | INCHES    |       |
|----------------|-------------|-------|-----------|-------|
|                | MIN         | MAX   | MIN       | MAX   |
| A              | ---         | 2.05  | ---       | 0.081 |
| A <sub>1</sub> | 0.05        | 0.20  | 0.002     | 0.008 |
| b              | 0.35        | 0.50  | 0.014     | 0.020 |
| c              | 0.18        | 0.27  | 0.007     | 0.011 |
| D              | 9.90        | 10.50 | 0.390     | 0.413 |
| E              | 5.10        | 5.45  | 0.201     | 0.215 |
| e              | 1.27 BSC    |       | 0.050 BSC |       |
| H <sub>E</sub> | 7.40        | 8.20  | 0.291     | 0.323 |
| 0.50           | 0.50        | 0.85  | 0.020     | 0.033 |
| L <sub>E</sub> | 1.10        | 1.50  | 0.043     | 0.059 |
| M              | 0°          | 10°   | 0°        | 10°   |
| Q <sub>1</sub> | 0.70        | 0.90  | 0.028     | 0.035 |
| Z              | ---         | 1.42  | ---       | 0.056 |

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