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MC74VHC573

Octal D-Type Latch with 3-State Output

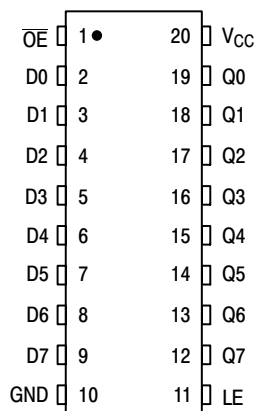
The MC74VHC573 is an advanced high speed CMOS octal latch with 3-state output fabricated with silicon gate CMOS technology. It achieves high speed operation similar to equivalent Bipolar Schottky TTL while maintaining CMOS low power dissipation.

This 8-bit D-type latch is controlled by a latch enable input and an output enable input. When the output enable input is high, the eight outputs are in a 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: $t_{PD} = 4.5 \text{ ns}$ (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: $V_{OLP} = 1.2 \text{ V}$ (Max)
- Pin and Function Compatible with Other Standard Logic Families
- Latchup Performance Exceeds 300 mA
- ESD Performance: HBM > 2000 V; Machine Model > 200 V
- Chip Complexity: 218 FETs or 54.5 Equivalent Gates
- These Devices are Pb-Free and are RoHS Compliant

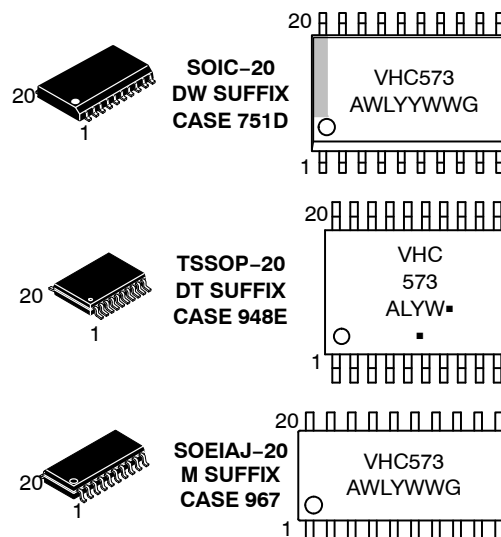
PIN ASSIGNMENT



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MARKING DIAGRAMS



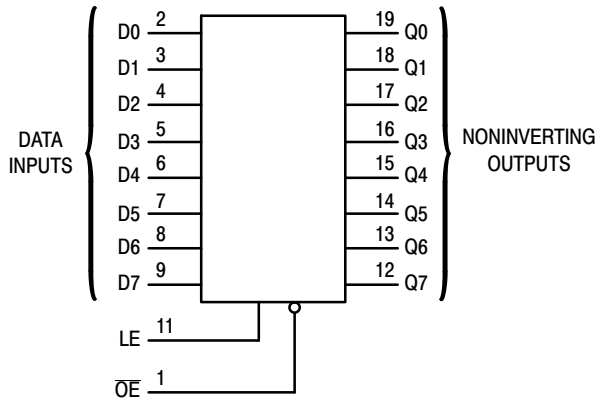
VHC573 = Specific Device Code
 A = Assembly Location
 WL, L = Wafer Lot
 Y = Year
 WW, W = Work Week
 G or ■ = Pb-Free Package
 (Note: Microdot may be in either location)

ORDERING INFORMATION

| Device | Package | Shipping |
|-----------------|-----------|-------------|
| MC74VHC573DWR2G | SOIC-20 | 1000 / Reel |
| MC74VHC573DTR2G | TSSOP-20 | 2500 / Reel |
| MC74VHC573MELG | SOEIAJ-20 | 2000 / Reel |

MC74VHC573

LOGIC DIAGRAM



FUNCTION TABLE

| INPUTS | | | OUTPUT |
|--------|----|---|-----------|
| OE | LE | D | Q |
| L | H | H | H |
| L | H | L | L |
| L | L | X | No Change |
| H | X | X | Z |

MC74VHC573

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 | ± 20 | mA |
| I _{out} | DC Output Current, per Pin | ± 25 | mA |
| I _{CC} | DC Supply Current, V _{CC} and GND Pins | ± 75 | mA |
| P _D | Power Dissipation in Still Air, SOIC Packages† TSSOP Package† | 500 450 | 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 ≤ (V_{in} or V_{out}) ≤ 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 | - 40 | + 85 | °C |
| t _r , t _f | Input Rise and Fall Time | V _{CC} = 3.3V 0 V _{CC} = 5.0V 0 | 100 20 | ns/V |

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Test Conditions | V _{CC} V | T _A = 25°C | | | T _A = - 40 to 85°C | | Unit |
|-----------------|-----------------------------------|--|----------------------|-------------------------------|-------------------|-------------------------------|-------------------------------|-------------------------------|------|
| | | | | Min | Typ | Max | Min | Max | |
| V _{IH} | Minimum High-Level Input Voltage | | 2.0 3.0 to 5.5 | 1.50 V _{CC} × 0.7 | | | 1.50 V _{CC} × 0.7 | | V |
| V _{IL} | Maximum Low-Level Input Voltage | | 2.0 3.0 to 5.5 | | | 0.50 V _{CC} × 0.3 | | 0.50 V _{CC} × 0.3 | V |
| V _{OH} | Minimum High-Level Output Voltage | V _{in} = V _{IH} or V _{IL} I _{OH} = - 50μA | 2.0 3.0 4.5 | 1.9 2.9 4.4 | 2.0 3.0 4.5 | | 1.9 2.9 4.4 | | V |
| | | V _{in} = V _{IH} or V _{IL} I _{OH} = - 4mA I _{OH} = - 8mA | 3.0 4.5 | 2.58 3.94 | | | 2.48 3.80 | | |
| V _{OL} | Maximum Low-Level Output Voltage | V _{in} = V _{IH} or V _{IL} I _{OL} = 50μA | 2.0 3.0 4.5 | | 0.0 0.0 0.0 | 0.1 0.1 0.1 | | 0.1 0.1 0.1 | V |
| | | V _{in} = V _{IH} or V _{IL} I _{OL} = 4mA I _{OL} = 8mA | 3.0 4.5 | | | 0.36 0.36 | | 0.44 0.44 | |
| I _{in} | Maximum Input Leakage Current | V _{in} = 5.5 V or GND | 0 to 5.5 | | | ± 0.1 | | ± 1.0 | μA |

MC74VHC573

DC ELECTRICAL CHARACTERISTICS

| Symbol | Parameter | Test Conditions | V _{CC} V | T _A = 25°C | | | T _A = -40 to 85°C | | Unit |
|-----------------|-------------------------------------|---|----------------------|-----------------------|-----|--------|------------------------------|-------|------|
| | | | | Min | Typ | Max | Min | Max | |
| I _{OZ} | Maximum Three-State Leakage Current | V _{in} = V _{IL} or V _{IH} V _{out} = V _{CC} or GND | 5.5 | | | ± 0.25 | | ± 2.5 | μA |
| I _{CC} | Maximum Quiescent Supply Current | V _{in} = V _{CC} or GND | 5.5 | | | 4.0 | | 40.0 | μA |

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

| Symbol | Parameter | Test Conditions | T _A = 25°C | | | T _A = -40 to 85°C | | Unit |
|--|---|--|-----------------------|------|------|------------------------------|------|------|
| | | | Min | Typ | Max | Min | Max | |
| t _{PLH} , t _{PHL} | Maximum Propagation Delay, LE to Q | V _{CC} = 3.3 ± 0.3V C _L = 15pF | | 7.6 | 11.9 | 1.0 | 14.0 | ns |
| | | C _L = 50pF | | 10.1 | 15.4 | 1.0 | 17.5 | |
| | | V _{CC} = 5.0 ± 0.5V C _L = 15pF | | 5.0 | 7.7 | 1.0 | 9.0 | |
| | | C _L = 50pF | | 6.5 | 9.7 | 1.0 | 11.0 | |
| t _{PLH} , t _{PHL} | Maximum Propagation Delay, D to Q | V _{CC} = 3.3 ± 0.3V C _L = 15pF | | 7.0 | 11.0 | 1.0 | 13.0 | ns |
| | | C _L = 50pF | | 9.5 | 14.5 | 1.0 | 16.5 | |
| | | V _{CC} = 5.0 ± 0.5V C _L = 15pF | | 4.5 | 6.8 | 1.0 | 8.0 | |
| | | C _L = 50pF | | 6.0 | 8.8 | 1.0 | 10.0 | |
| t _{PZL} , t _{PZH} | Output Enable Time, OE to Q | V _{CC} = 3.3 ± 0.3V C _L = 15pF | | 7.3 | 11.5 | 1.0 | 13.5 | ns |
| | | R _L = 1kΩ C _L = 50pF | | 9.8 | 15.0 | 1.0 | 17.0 | |
| | | V _{CC} = 5.0 ± 0.5V C _L = 15pF | | 5.2 | 7.7 | 1.0 | 9.0 | |
| | | R _L = 1kΩ C _L = 50pF | | 6.7 | 9.7 | 1.0 | 11.0 | |
| t _{PLZ} , t _{PHZ} | Output Disable Time, OE to Q | V _{CC} = 3.3 ± 0.3V C _L = 50pF | | 10.7 | 14.5 | 1.0 | 16.5 | ns |
| | | R _L = 1kΩ | | | | | | |
| | | V _{CC} = 5.0 ± 0.5V C _L = 50pF | | 6.7 | 9.7 | 1.0 | 11.0 | |
| | | R _L = 1kΩ | | | | | | |
| t _{OSLH} , t _{OSHL} | Output to Output Skew | V _{CC} = 3.3 ± 0.3V C _L = 50pF | | | 1.5 | | 1.5 | ns |
| | | (Note 1) | | | | | | |
| | | V _{CC} = 5.5 ± 0.5V C _L = 50pF | | | 1.0 | | 1.0 | ns |
| | | (Note 1) | | | | | | |
| C _{in} | Maximum Input Capacitance | | | 4 | 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°C, V _{CC} = 5.0V | | pF |
|-----------------|--|--|--|----|
| | | | | |
| | | 29 | | |

- 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} • V_{CC} • f_{in} + I_{CC}/8 (per latch). 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}.

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

| Symbol | Parameter | T _A = 25°C | | Unit |
|------------------|--|-----------------------|------|------|
| | | Typ | Max | |
| V _{OLP} | Quiet Output Maximum Dynamic V _{OL} | 0.9 | 1.2 | V |
| V _{OLV} | Quiet Output Minimum Dynamic V _{OL} | -0.9 | -1.2 | V |
| V _{IHD} | Minimum High Level Dynamic Input Voltage | | 3.5 | V |
| V _{ILD} | Maximum Low Level Dynamic Input Voltage | | 1.5 | V |

MC74VHC573

TIMING REQUIREMENTS (Input $t_r = t_f = 3.0\text{ns}$)

| Symbol | Parameter | Test Conditions | $T_A = 25^\circ\text{C}$ | | $T_A = -40$ to 85°C | Unit |
|------------|-----------------------------|--|--------------------------|------------|--------------------------------------|------|
| | | | Typ | Limit | Limit | |
| $t_{w(h)}$ | Minimum Pulse Width, LE | $V_{CC} = 3.3 \pm 0.3\text{V}$ $V_{CC} = 5.0 \pm 0.5\text{V}$ | | 5.0 5.0 | 5.0 5.0 | ns |
| t_{su} | Minimum Setup Time, D to LE | $V_{CC} = 3.3 \pm 0.3\text{V}$ $V_{CC} = 5.0 \pm 0.5\text{V}$ | | 3.5 3.5 | 3.5 3.5 | ns |
| t_h | Minimum Hold Time, D to LE | $V_{CC} = 3.3 \pm 0.3\text{V}$ $V_{CC} = 5.0 \pm 0.5\text{V}$ | | 1.5 1.5 | 1.5 1.5 | ns |

SWITCHING WAVEFORMS

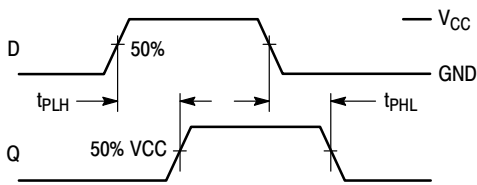


Figure 1.

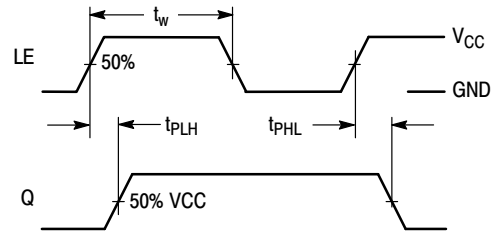


Figure 2.

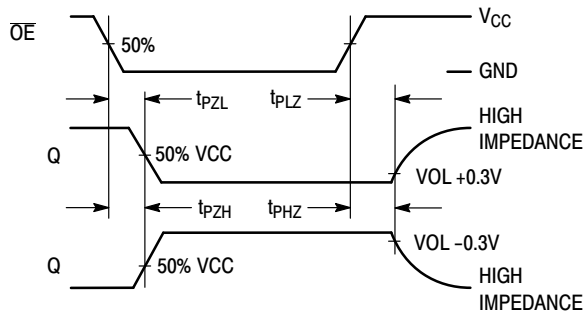


Figure 3.

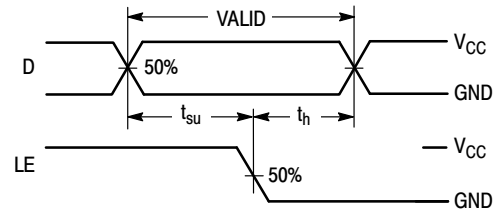
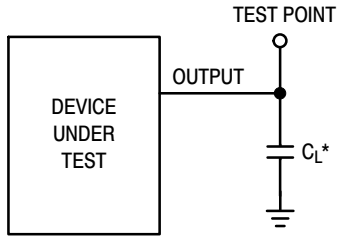


Figure 4.

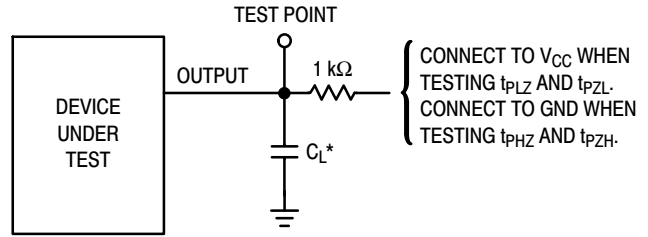
MC74VHC573

TEST CIRCUITS



*Includes all probe and jig capacitance

Figure 5.



*Includes all probe and jig capacitance

Figure 6.

EXPANDED LOGIC DIAGRAM

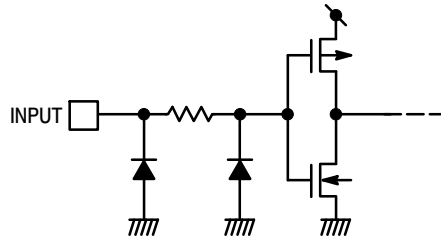
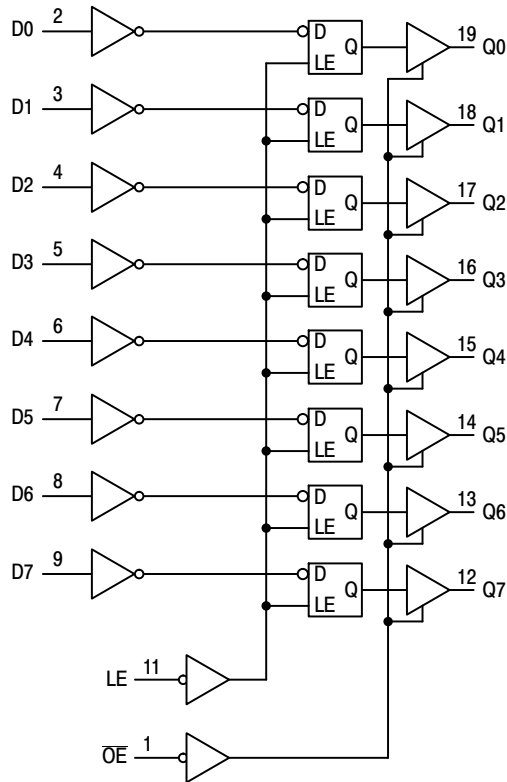
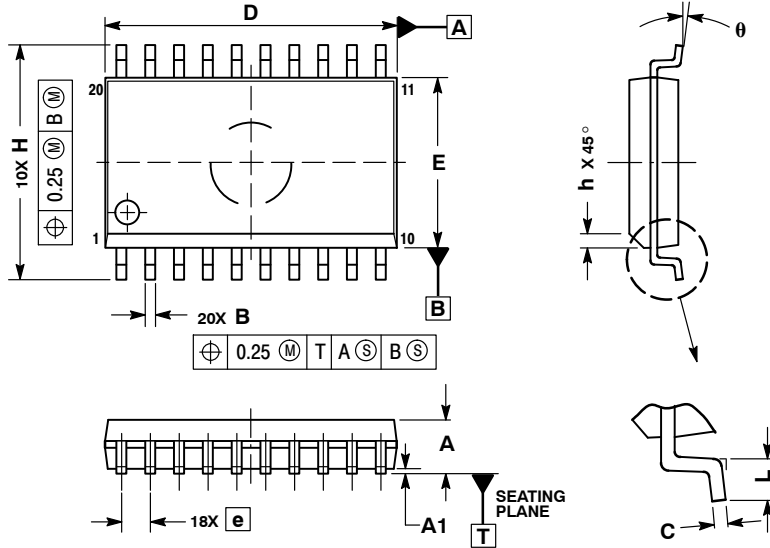


Figure 7. Input Equivalent Circuit

MC74VHC573

PACKAGE DIMENSIONS

SOIC-20
DW SUFFIX
CASE 751D-05
ISSUE G



NOTES:

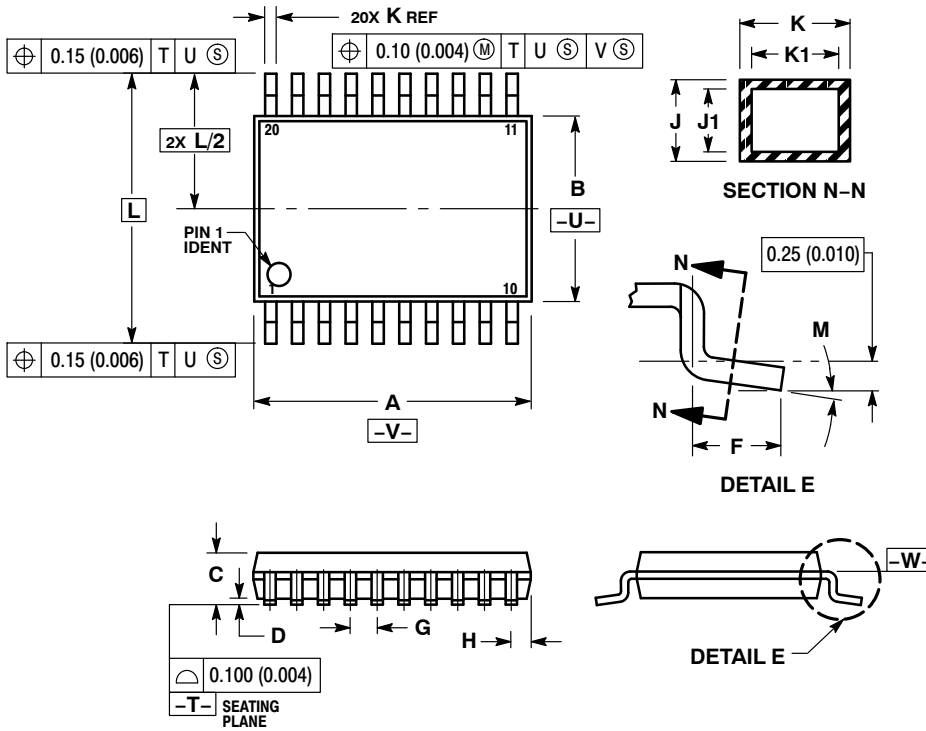
1. DIMENSIONS ARE IN MILLIMETERS.
2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
5. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF B DIMENSION AT MAXIMUM MATERIAL CONDITION.

| DIM | MILLIMETERS | |
|----------|-------------|-------|
| | MIN | MAX |
| A | 2.35 | 2.65 |
| A1 | 0.10 | 0.25 |
| B | 0.35 | 0.49 |
| C | 0.23 | 0.32 |
| D | 12.65 | 12.95 |
| E | 7.40 | 7.60 |
| e | 1.27 BSC | |
| H | 10.05 | 10.55 |
| h | 0.25 | 0.75 |
| L | 0.50 | 0.90 |
| θ | 0° | 7° |

MC74VHC573

PACKAGE DIMENSIONS

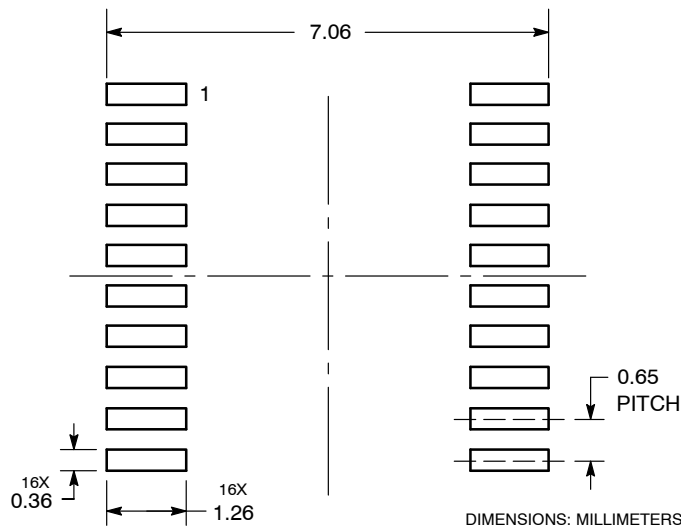
TSSOP-20
CASE 948E-02
ISSUE C



- 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 | 6.40 | 6.60 | 0.252 | 0.260 |
| 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 | 0.27 | 0.37 | 0.011 | 0.015 |
| 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° |

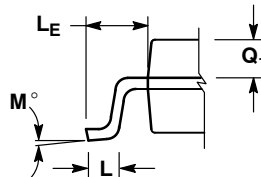
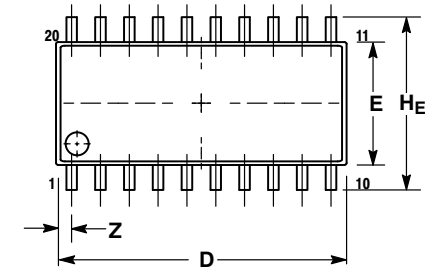
SOLDERING FOOTPRINT



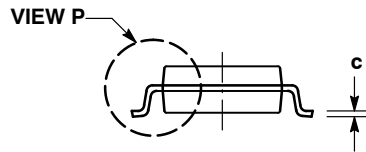
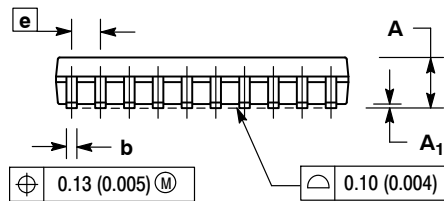
MC74VHC573

PACKAGE DIMENSIONS

SOEIAJ-20
CASE 967-01
ISSUE A



DETAIL P



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 ₁ | 0.05 | 0.20 | 0.002 | 0.008 |
| b | 0.35 | 0.50 | 0.014 | 0.020 |
| c | 0.15 | 0.25 | 0.006 | 0.010 |
| D | 12.35 | 12.80 | 0.486 | 0.504 |
| E | 5.10 | 5.45 | 0.201 | 0.215 |
| e | 1.27 BSC | | 0.050 BSC | |
| H _E | 7.40 | 8.20 | 0.291 | 0.323 |
| L | 0.50 | 0.85 | 0.020 | 0.033 |
| L _E | 1.10 | 1.50 | 0.043 | 0.059 |
| M | 0° | 10° | 0° | 10° |
| Q ₁ | 0.70 | 0.90 | 0.028 | 0.035 |
| Z | --- | 0.81 | --- | 0.032 |

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