

# MC74HCT4094A

## 8-Bit Shift and Store Register with LSTTL Compatible Inputs

### High-Performance Silicon-Gate CMOS

The MC74HCT4094A is a high speed CMOS 8-bit serial shift and storage register. This device consists of an 8-bit shift register and latch with 3-state output buffers. Data is shifted on positive clock (CP) transitions. The data in the shift register is transferred to the storage register when the Strobe (STR) input is high. The output buffers are enabled when the Output Enable (OE) input is set high. Two serial outputs (QS<sub>1</sub>, QS<sub>2</sub>) are available for cascading multiple devices.

The MC74HCT4094A can be used to interface TTL or CMOS outputs to high speed CMOS inputs.

#### Features

- Wide Operating Voltage Range: 4.5 to 5.5 V
- Low Power Dissipation:  $I_{CC} = < 10 \mu A$
- In Compliance with the Requirements Defined by JEDEC Standard No. 7A
- These are Pb-Free Devices

#### Typical Applications

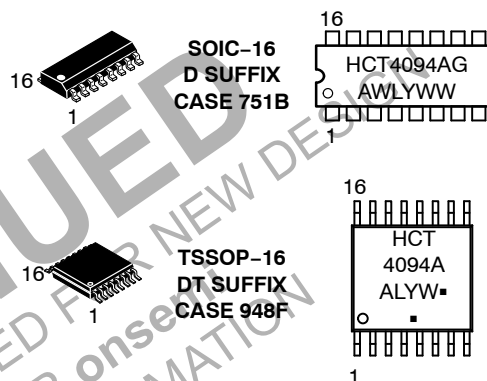
- Serial-to-Parallel Conversion
- Remote Control Storage Register



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#### MARKING DIAGRAMS



A = Assembly Location  
WL, L = Wafer Lot  
YY, Y = Year  
WW, W = Work Week  
G, ■ = Pb-Free Package

(Note: Microdot may be in either location)

#### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 9 of this data sheet.

# MC74HCT4094A

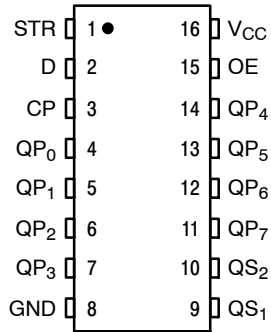


Figure 1. Pin Assignment

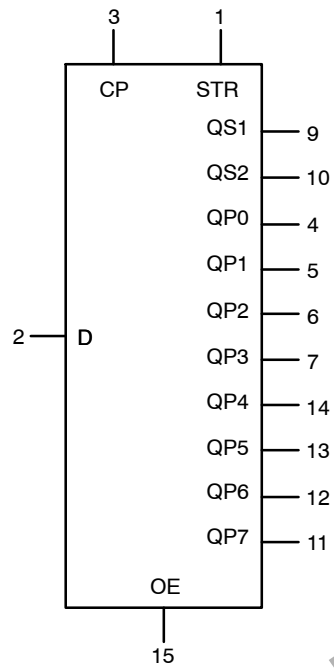


Figure 2. Logic Symbol

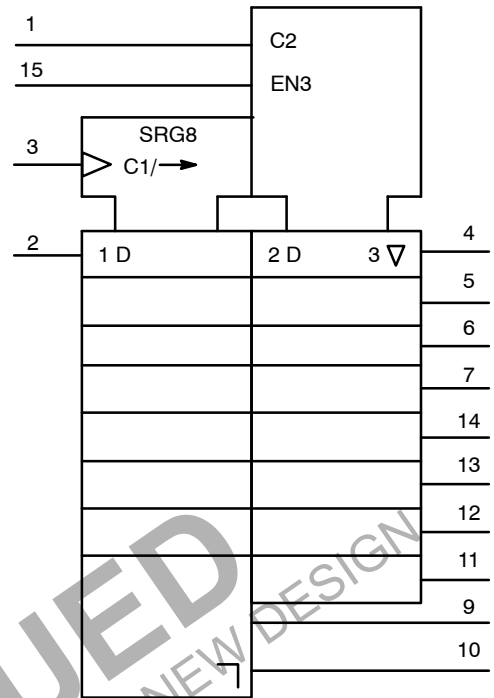


Figure 3. IEC Logic Symbol

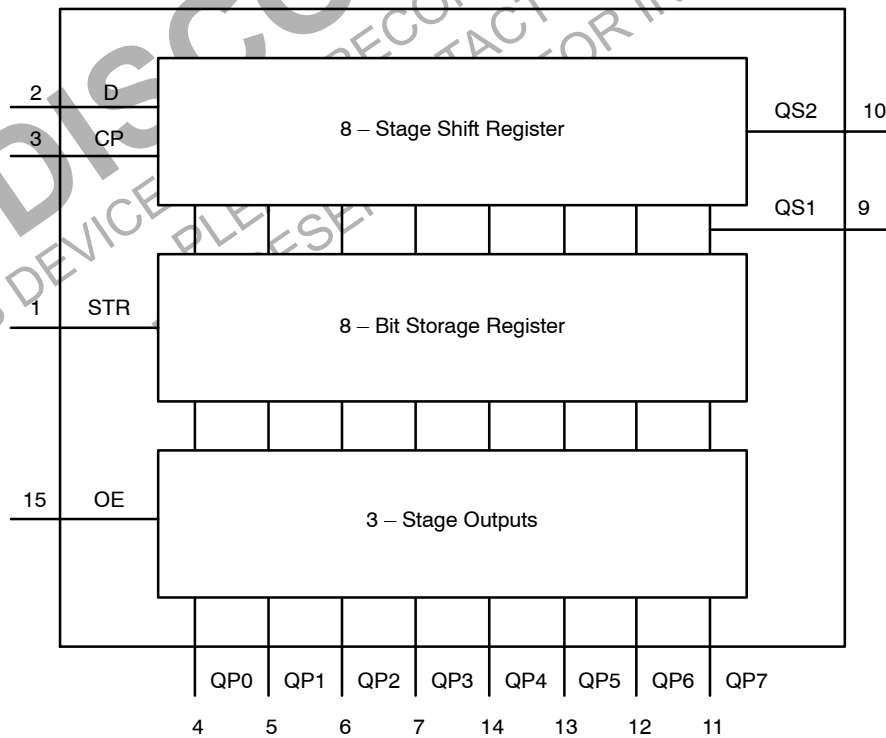


Figure 4. Functional Diagram

# MC74HCT4094A

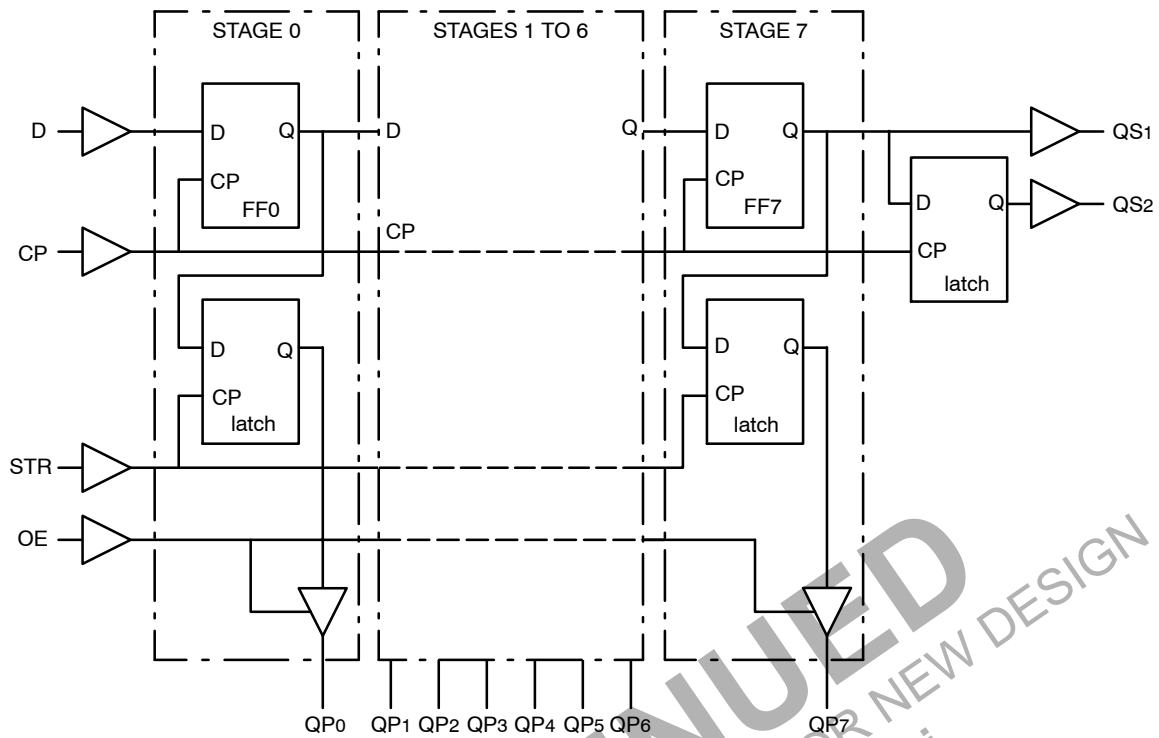


Figure 5. Logic Diagram

**DISCONTINUED**  
 THIS DEVICE IS NOT RECOMMENDED FOR NEW DESIGN  
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## MAXIMUM RATINGS

| Symbol    | Parameter                                                          | Value                   | Unit |
|-----------|--------------------------------------------------------------------|-------------------------|------|
| $V_{CC}$  | DC Supply Voltage (Referenced to GND)                              | – 0.5 to + 7.0          | V    |
| $V_{in}$  | DC Input Voltage (Referenced to GND)                               | – 0.5 to $V_{CC} + 0.5$ | V    |
| $V_{out}$ | DC Output Voltage (Referenced to GND)                              | – 0.5 to $V_{CC} + 0.5$ | V    |
| $I_{in}$  | DC Input Current, per Pin                                          | $\pm 20$                | mA   |
| $I_{out}$ | DC Output Current, per Pin                                         | $\pm 35$                | mA   |
| $I_{CC}$  | DC Supply Current, $V_{CC}$ and GND Pins                           | $\pm 75$                | mA   |
| $P_D$     | Power Dissipation in Still Air,<br>SOIC Package†<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.

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

†Derating – SOIC Package: – 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 (Referenced to GND)                | 4.5 | 5.5      | V    |
| $V_{in}, V_{out}$ | DC Input Voltage, Output Voltage (Referenced to GND) | 0   | $V_{CC}$ | V    |
| $T_A$             | Operating Temperature, All Package Types             | –55 | +125     | °C   |
| $t_r, t_f$        | Input Rise and Fall Time (Figure 1)                  | 0   | 500      | ns   |

## FUNCTIONAL TABLE

| INPUTS |    |     |   | PARALLEL OUTPUTS |       | SERIAL OUTPUTS |     |
|--------|----|-----|---|------------------|-------|----------------|-----|
| CP     | OE | STR | D | QP0              | QPn   | QS1            | QS2 |
| ↑      | L  | X   | X | Z                | Z     | Q'6            | NC  |
| ↓      | L  | X   | X | Z                | Z     | NC             | QP7 |
| ↑      | H  | L   | X | NC               | NC    | Q'6            | NC  |
| ↑      | H  | H   | L | L                | QPn-1 | Q'6            | NC  |
| ↑      | H  | H   | H | H                | QPn-1 | Q'6            | NC  |
| ↓      | H  | H   | H | NC               | NC    | NC             | QP7 |

## Notes

- H = HIGH voltage level  
 L = LOW voltage level  
 X = don't care  
 Z = high impedance OFF-state  
 NC = no change  
 ↑ = LOW-to-HIGH CP transition  
 ↓ = HIGH-to-LOW CP transition  
 Q'6 = the information in the seventh register stage is transferred to the 8th register stage and QSn output at the positive clock edge

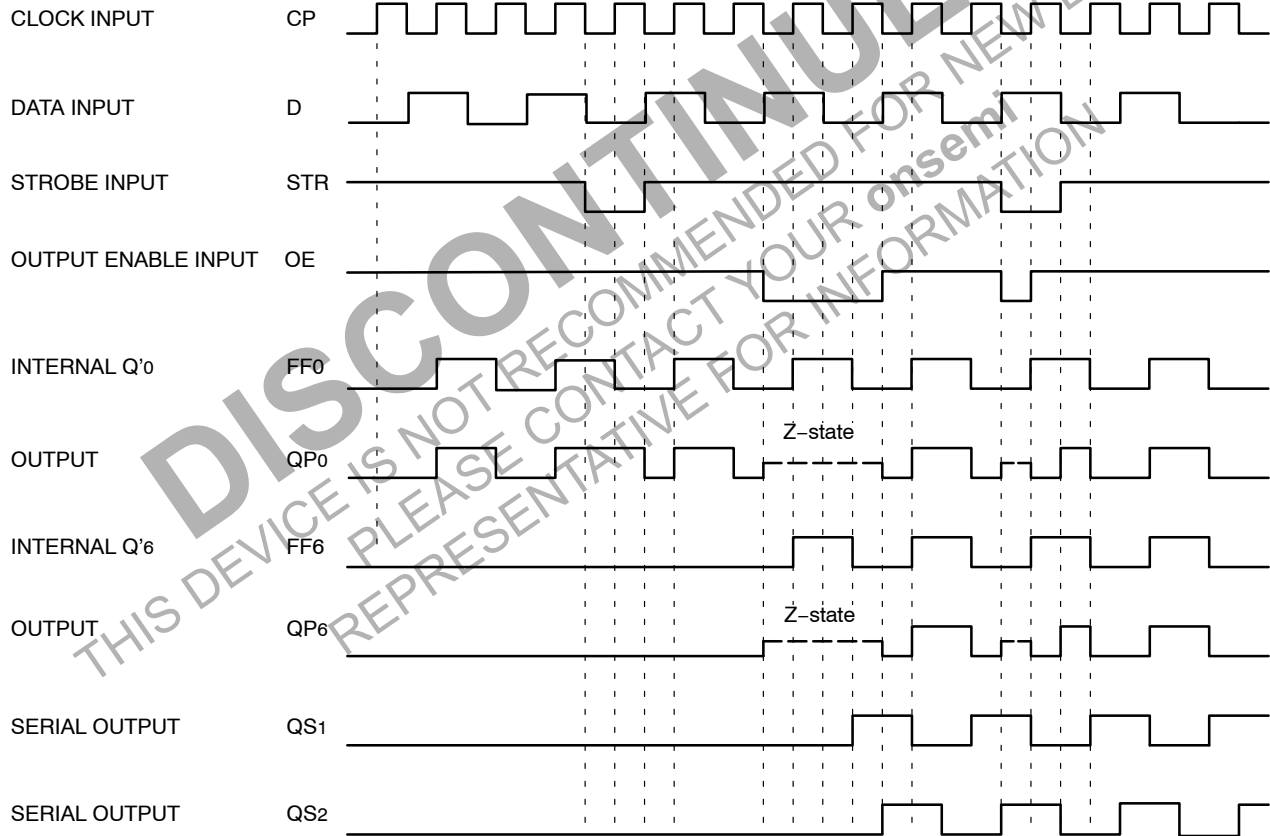


Figure 6. Timing Diagram

# MC74HCT4094A

## DC CHARACTERISTICS

| Symbol           | Parameter                                | Test Conditions                                                                                                           | V <sub>CC</sub> (V) | Guaranteed Limits |             |         | Unit |
|------------------|------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------|-------------|---------|------|
|                  |                                          |                                                                                                                           |                     | -55°C to 25°C     | ≤ 85°C      | ≤ 125°C |      |
| V <sub>IH</sub>  | Minimum High-Level Input Voltage         | V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V<br> I <sub>OUT</sub>   ≤ 20 μA                                        | 4.5                 | 2.0               | 2.0         | 2.0     | V    |
|                  |                                          |                                                                                                                           | 5.5                 | 2.0               | 2.0         | 2.0     |      |
| V <sub>IL</sub>  | Maximum Low-Level Input Voltage          | V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V<br> I <sub>OUT</sub>   ≤ 20 μA                                        | 4.5                 | 0.8               | 0.8         | 0.8     | V    |
|                  |                                          |                                                                                                                           | 5.5                 | 0.8               | 0.8         | 0.8     |      |
| V <sub>OH</sub>  | Minimum High-Level Output Voltage        | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br> I <sub>OUT</sub>   ≤ 20 μA                                       | 4.5                 | 4.4               | 4.4         | 4.4     | V    |
|                  |                                          |                                                                                                                           | 5.5                 | 5.4               | 5.4         | 5.4     |      |
|                  |                                          | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> ,  I <sub>OUT</sub>   = 6 mA                                         | 4.5                 | 4.25              | 4.2         | 4.1     |      |
| V <sub>OL</sub>  | Maximum Low-Level Output Voltage         | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> ,  I <sub>OUT</sub>   ≤ 20 μA                                        | 4.5                 | 0.1               | 0.1         | 0.1     | V    |
|                  |                                          |                                                                                                                           | 5.5                 | 0.1               | 0.1         | 0.1     |      |
|                  |                                          | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> ,  I <sub>OUT</sub>   = 6 mA                                         | 4.5                 | 0.25              | 0.3         | 0.4     |      |
| I <sub>IN</sub>  | Maximum Input Leakage Current            | V <sub>IN</sub> = V <sub>CC</sub> or GND                                                                                  | 5.5                 | ±0.1              | ±1          | ±1      | μA   |
| I <sub>OZ</sub>  | Maximum Tri-State Output Leakage Current | V <sub>IN</sub> = V <sub>CC</sub> or GND<br>V <sub>OUT</sub> = V <sub>CC</sub> or GND                                     | 5.5                 | ±0.5              | ±5          | ±10     | μA   |
| I <sub>CC</sub>  | Maximum Quiescent Supply Current         | V <sub>IN</sub> = V <sub>CC</sub> or GND                                                                                  | 5.5                 | 4.0               | 40          | 80      | μA   |
| ΔI <sub>CC</sub> | Additional Quiescent Supply Current      | V <sub>in</sub> = 2.4V, Any One Input<br>V <sub>in</sub> = V <sub>CC</sub> or GND, Other Inputs<br>I <sub>out</sub> = 0μA | 5.5                 | ≥ -55°C           | 25 to 125°C |         | mA   |
|                  |                                          |                                                                                                                           |                     | 2.9               | 2.4         |         |      |

# MC74HCT4094A

## AC CHARACTERISTICS ( $t_f = t_r = 6 \text{ ns}$ , $C_L = 50 \text{ pF}$ )

| Symbol             | Parameter                                          | Test Conditions | $V_{CC} \text{ (V)}$ | Guaranteed Limits                        |                         |                          | Unit |
|--------------------|----------------------------------------------------|-----------------|----------------------|------------------------------------------|-------------------------|--------------------------|------|
|                    |                                                    |                 |                      | $-55^\circ\text{C to } 25^\circ\text{C}$ | $\leq 85^\circ\text{C}$ | $\leq 125^\circ\text{C}$ |      |
| $t_{PHL}, t_{PLH}$ | Maximum Propagation Delay<br>CP to $QS_1$          | Figure 7        | 4.5                  | 30                                       | 38                      | 45                       | ns   |
| $t_{PHL}, t_{PLH}$ | Maximum Propagation Delay<br>CP to $QS_2$          | Figure 7        | 4.5                  | 27                                       | 34                      | 41                       | ns   |
| $t_{PHL}, t_{PLH}$ | Maximum Propagation Delay<br>CP to $QP_n$          | Figure 7        | 4.5                  | 39                                       | 49                      | 59                       | ns   |
| $t_{PHL}, t_{PLH}$ | Maximum Propagation Delay<br>STR to $QP_n$         | Figure 8        | 4.5                  | 36                                       | 45                      | 54                       | ns   |
| $t_{PZH}, t_{PZL}$ | Maximum 3-State Output Enable Time<br>OE to $QP_n$ | Figure 9        | 4.5                  | 35                                       | 44                      | 53                       | ns   |
| $t_{PHZ}, t_{PLZ}$ | Maximum 3-State Output Enable Time<br>OE to $QP_n$ | Figure 9        | 4.5                  | 25                                       | 31                      | 38                       | ns   |
| $t_{THL}, t_{TLH}$ | Maximum Output Transition Time                     | Figure 7        | 4.5                  | 18                                       | 22                      | 25                       | ns   |
| $t_W$              | Minimum Clock Pulse Width<br>High or Low           | Figure 7        | 4.5                  | 16                                       | 20                      | 24                       | ns   |
| $t_W$              | Minimum Strobe Pulse Width<br>High                 | Figure 8        | 4.5                  | 16                                       | 20                      | 24                       | ns   |
| $t_{SU}$           | Minimum Set-up Time<br>D to CP                     | Figure 10       | 4.5                  | 10                                       | 13                      | 15                       | ns   |
| $t_{SU}$           | Minimum Set-up Time<br>CP to STR                   | Figure 8        | 4.5                  | 20                                       | 25                      | 30                       | ns   |
| $t_h$              | Minimum Hold Time<br>D to CP                       | Figure 10       | 4.5                  | 3                                        | 3                       | 3                        | ns   |
| $t_h$              | Minimum Hold Time<br>CP to STR                     | Figure 8        | 4.5                  | 0                                        | 0                       | 0                        | ns   |
| $f_{MAX}$          | Minimum Clock Pulse Frequency                      | Figure 7        | 4.5                  | 30                                       | 24                      | 20                       | MHz  |
| $C_{in}$           | Maximum Input Capacitance                          |                 | –                    | 10                                       | 10                      | 10                       | pF   |
| $C_{out}$          | Maximum Output Capacitance                         |                 | –                    | 15                                       | 15                      | 15                       | pF   |
| $C_{PD}$           | Power Dissipation Capacitance (Note 2)             |                 | –                    | 140                                      | 140                     | 140                      | pF   |

2.  $C_{PD}$  is defined as the value of the IC's equivalent capacitance from which the operating current can be calculated from:  
 $I_{CC}(\text{operating}) \approx C_{PD} \times V_{CC} \times f_{IN} \times N_{SW}$  where  $N_{SW}$  = total number of outputs switching and  $f_{IN}$  = switching frequency.

AC WAVEFORMS

( $V_M = 1.3\text{ V}$ )

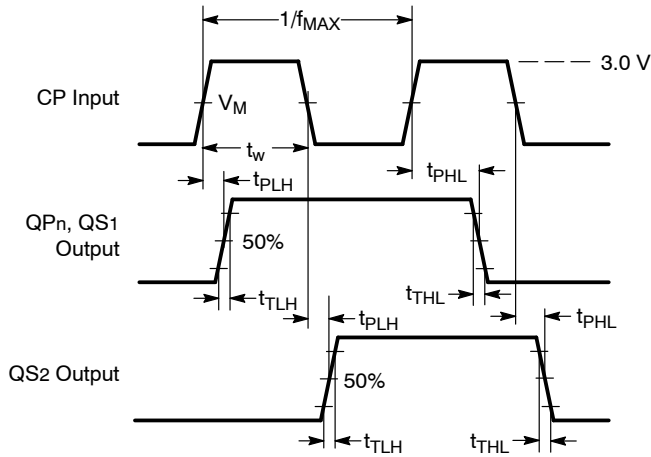


Figure 7. Waveforms showing the clock (CP) to output (QPn, QS1, QS2) propagation delays, the clock pulse width and the maximum clock frequency.

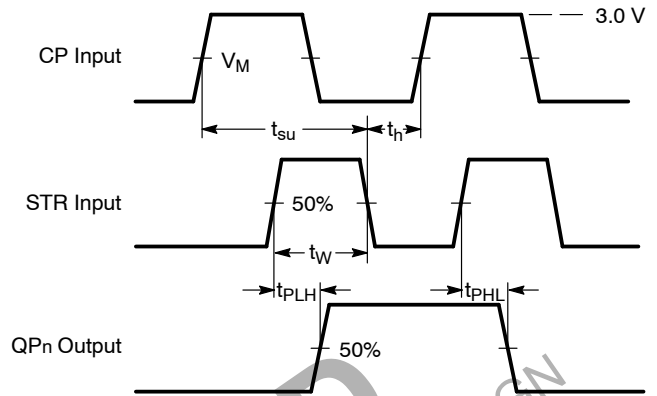


Figure 8. Waveforms showing the strobe (STR) to output (QPn) propagation delays, the strobe pulse width, the clock set-up and hold times for the strobe input.

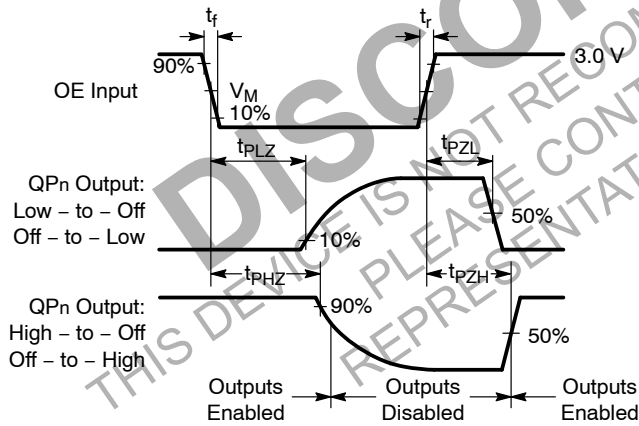


Figure 9. Waveforms showing the 3-state enable and disable times for input OE.

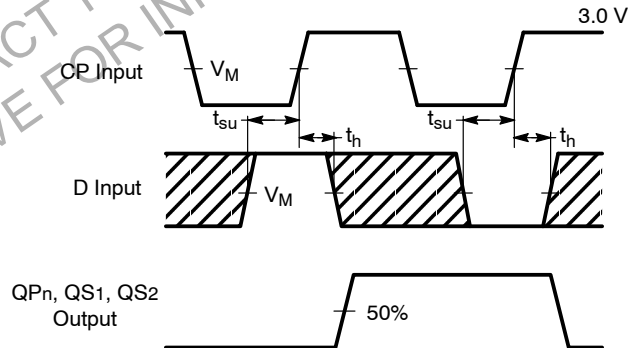


Figure 10. Waveforms showing the data set-up and hold times for the data input.

# MC74HCT4094A

## TEST CIRCUITS

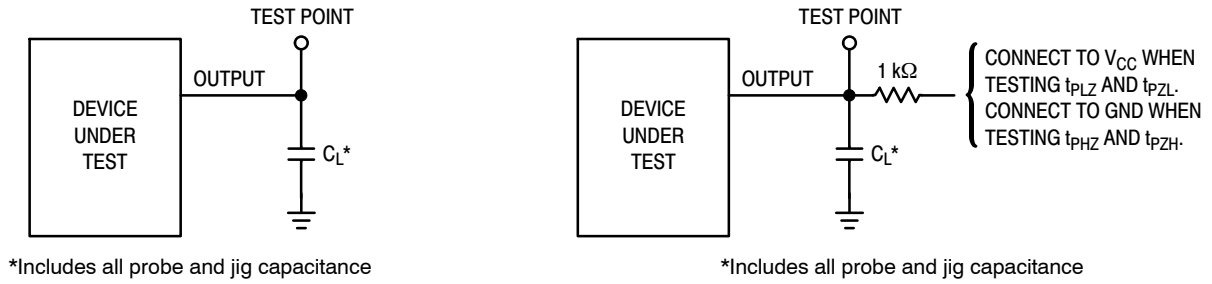


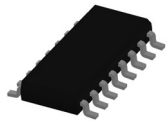
Figure 11. AC Characteristics Load Circuits

## ORDERING INFORMATION

| Device            | Package           | Shipping†        |
|-------------------|-------------------|------------------|
| MC74HCT4094ADG    | SOIC-16 (Pb-Free) | 48 Units / Rail  |
| MC74HCT4094ADR2G  | SOIC-16 (Pb-Free) | 2500 Tape & Reel |
| MC74HCT4094ADT    | TSSOP-16*         | 96 Units / Rail  |
| MC74HCT4094ADTR2G | TSSOP-16*         | 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.

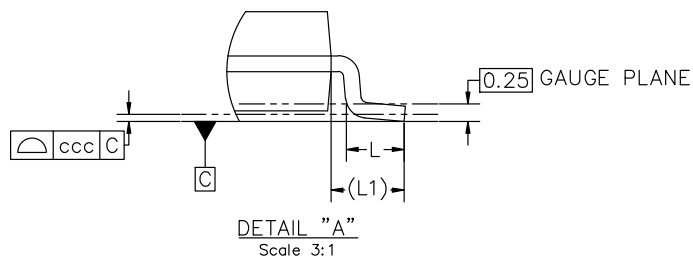
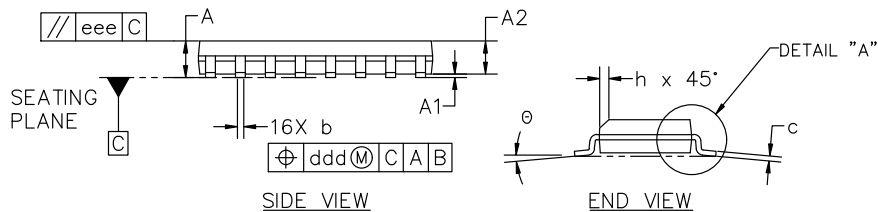
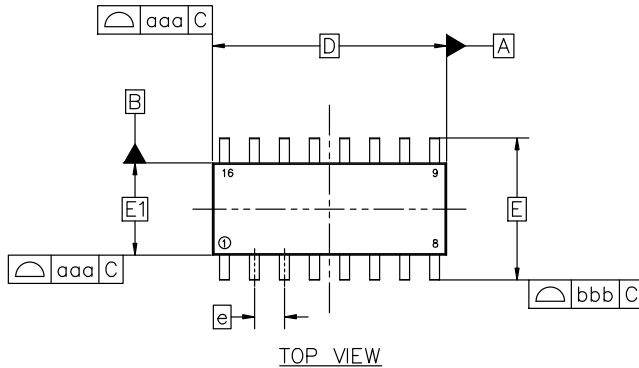
\*This package is inherently Pb-Free.


**SOIC-16 9.90x3.90x1.37 1.27P**  
**CASE 751B**  
**ISSUE M**

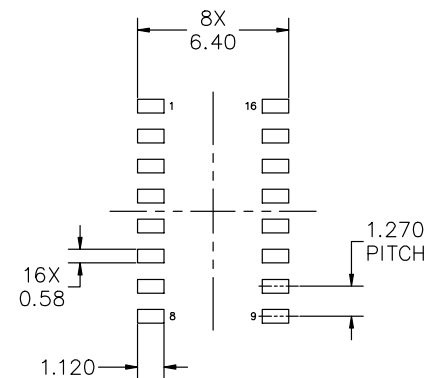
DATE 18 OCT 2024

## NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
5. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE b DIMENSION AT MAXIMUM MATERIAL CONDITION.



| MILLIMETERS                    |          |      |      |
|--------------------------------|----------|------|------|
| DIM                            | MIN      | NOM  | MAX  |
| A                              | 1.35     | 1.55 | 1.75 |
| A1                             | 0.10     | 0.18 | 0.25 |
| A2                             | 1.25     | 1.37 | 1.50 |
| b                              | 0.35     | 0.42 | 0.49 |
| c                              | 0.19     | 0.22 | 0.25 |
| D                              | 9.90 BSC |      |      |
| E                              | 6.00 BSC |      |      |
| E1                             | 3.90 BSC |      |      |
| e                              | 1.27 BSC |      |      |
| h                              | 0.25     | ---  | 0.50 |
| L                              | 0.40     | 0.83 | 1.25 |
| L1                             | 1.05 REF |      |      |
| θ                              | 0°       | ---  | 7°   |
| TOLERANCE OF FORM AND POSITION |          |      |      |
| aaa                            | 0.10     |      |      |
| bbb                            | 0.20     |      |      |
| ccc                            | 0.10     |      |      |
| ddd                            | 0.25     |      |      |
| eee                            | 0.10     |      |      |



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PB-FREE STRATEGY AND SOLDERING DETAILS,  
PLEASE DOWNLOAD THE onsemi SOLDERING  
AND MOUNTING TECHNIQUES REFERENCE  
MANUAL, SOLDERM/D

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SOIC-16 9.90x3.90x1.37 1.27P  
CASE 751B  
ISSUE M

DATE 18 OCT 2024

GENERIC  
MARKING DIAGRAM\*



XXXXX = Specific Device Code  
A = Assembly Location  
WL = Wafer Lot  
Y = Year  
WW = Work Week  
G = Pb-Free Package

\*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.

|                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| STYLE 1:<br>PIN 1. COLLECTOR<br>2. BASE<br>3. EMITTER<br>4. NO CONNECTION<br>5. EMITTER<br>6. BASE<br>7. COLLECTOR<br>8. COLLECTOR<br>9. BASE<br>10. EMITTER<br>11. NO CONNECTION<br>12. EMITTER<br>13. BASE<br>14. COLLECTOR<br>15. EMITTER<br>16. COLLECTOR                           | STYLE 2:<br>PIN 1. CATHODE<br>2. ANODE<br>3. NO CONNECTION<br>4. CATHODE<br>5. CATHODE<br>6. NO CONNECTION<br>7. ANODE<br>8. CATHODE<br>9. CATHODE<br>10. ANODE<br>11. NO CONNECTION<br>12. CATHODE<br>13. CATHODE<br>14. NO CONNECTION<br>15. ANODE<br>16. CATHODE | STYLE 3:<br>PIN 1. COLLECTOR, DYE #1<br>2. BASE, #1<br>3. EMITTER, #1<br>4. COLLECTOR, #1<br>5. COLLECTOR, #2<br>6. BASE, #2<br>7. EMITTER, #2<br>8. COLLECTOR, #2<br>9. COLLECTOR, #3<br>10. BASE, #3<br>11. EMITTER, #3<br>12. COLLECTOR, #3<br>13. COLLECTOR, #4<br>14. BASE, #4<br>15. EMITTER, #4<br>16. COLLECTOR, #4                                                                                         | STYLE 4:<br>PIN 1. COLLECTOR, DYE #1<br>2. COLLECTOR, #1<br>3. COLLECTOR, #2<br>4. COLLECTOR, #2<br>5. COLLECTOR, #3<br>6. COLLECTOR, #3<br>7. COLLECTOR, #4<br>8. COLLECTOR, #4<br>9. BASE, #4<br>10. EMITTER, #4<br>11. BASE, #3<br>12. EMITTER, #3<br>13. BASE, #2<br>14. EMITTER, #2<br>15. BASE, #1<br>16. EMITTER, #1 |
| STYLE 5:<br>PIN 1. DRAIN, DYE #1<br>2. DRAIN, #1<br>3. DRAIN, #2<br>4. DRAIN, #2<br>5. DRAIN, #3<br>6. DRAIN, #3<br>7. DRAIN, #4<br>8. DRAIN, #4<br>9. GATE, #4<br>10. SOURCE, #4<br>11. GATE, #3<br>12. SOURCE, #3<br>13. GATE, #2<br>14. SOURCE, #2<br>15. GATE, #1<br>16. SOURCE, #1 | STYLE 6:<br>PIN 1. CATHODE<br>2. CATHODE<br>3. CATHODE<br>4. CATHODE<br>5. CATHODE<br>6. CATHODE<br>7. CATHODE<br>8. CATHODE<br>9. ANODE<br>10. ANODE<br>11. ANODE<br>12. ANODE<br>13. ANODE<br>14. ANODE<br>15. ANODE<br>16. ANODE                                 | STYLE 7:<br>PIN 1. SOURCE N-CH<br>2. COMMON DRAIN (OUTPUT)<br>3. COMMON DRAIN (OUTPUT)<br>4. GATE P-CH<br>5. COMMON DRAIN (OUTPUT)<br>6. COMMON DRAIN (OUTPUT)<br>7. COMMON DRAIN (OUTPUT)<br>8. SOURCE P-CH<br>9. SOURCE P-CH<br>10. COMMON DRAIN (OUTPUT)<br>11. COMMON DRAIN (OUTPUT)<br>12. COMMON DRAIN (OUTPUT)<br>13. GATE N-CH<br>14. COMMON DRAIN (OUTPUT)<br>15. COMMON DRAIN (OUTPUT)<br>16. SOURCE N-CH |                                                                                                                                                                                                                                                                                                                             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                              |                                                                                                                                                                                     |
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**TSSOP-16 WB**  
**CASE 948F**  
**ISSUE B**

DATE 19 OCT 2006


**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°    |

**RECOMMENDED  
SOLDERING FOOTPRINT\***


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

**GENERIC  
MARKING DIAGRAM\***


XXXX = Specific Device Code  
A = Assembly Location  
L = Wafer Lot  
Y = Year  
W = Work Week  
G or ■ = Pb-Free Package

\*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.

|                         |                    |                                                                                                                                                                                  |
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