

# **Hex Buffer**

# MC74VHC50, MC74VHCT50A

The MC74VHC50 and MC74VHCT50A are high speed CMOS quad Buffers fabricated with silicon gate CMOS technology. These achieve high speed operation similar to equivalent Bipolar Schottky TTL while maintaining CMOS low power dissipation.

The MC74VHC50 inputs are compatible with standard CMOS levels while the MC74VHCT50A inputs are compatible with TTL levels. This device can be used as a level converter for interfacing 3.3 V to 5.0 V, because it has full 5.0 V CMOS level output swings.

The MC74VHC50 and MC74VHCT50A internal circuits are composed of three stages, including a buffer output which provides high noise immunity and stable output. The input structures tolerate voltages up to 5.5 V, allowing the interface of 5 V systems to 3 V systems.

The MC74VHCT50A output structures provide protection when  $V_{\rm CC}$  = 0 V. These output structures help prevent device destruction caused by supply voltage – input/output voltage mismatch, battery backup, hot insertion, etc.

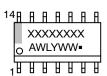
#### **Features**

- High Speed:  $t_{PD} = 3.8 \text{ ns}$  (Typ) at  $V_{CC} = 5 \text{ V}$
- Low Power Dissipation:  $I_{CC} = 2 \mu A$  (Max) at  $T_A = 25$ °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<sub>OLP</sub> = 0.8 V (Max)
- –Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC–Q100 Qualified and PPAP Capable\*
- These Devices are Pb-Free and are RoHS Compliant

#### MARKING DIAGRAMS



SOIC-14 D SUFFIX CASE 751A





TSSOP-14 DT SUFFIX CASE 948G



XXXXXX = Specific Device Code

A = Assembly Location

WL, L = Wafer Lot Y = Year WW, W = Work Week G or ■ = Pb-Free Package

#### **FUNCTION TABLE**

A Input	Y Output
L	L
H	H

### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 8 of this data sheet.

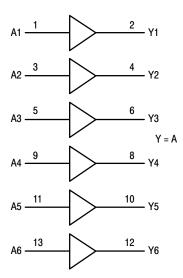


Figure 1. Logic Diagram

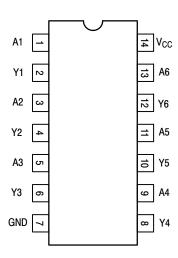


Figure 2. Pinout: 14-Lead Packages (Top View)

#### **MAXIMUM RATINGS**

Symbol	Parameter		Value	Unit
V <sub>CC</sub>	DC Supply Voltage		-0.5 to +6.5	V
VI	DC Input Voltage		-0.5 to +6.5	V
Vo	DC Output Voltage (MC74VHC)		-0.5 to V <sub>CC</sub> + 0.5	V
	Trist	High or Low State) ate Mode (Note 1) Mode (V <sub>CC</sub> = 0 V)	-0.5 to V <sub>CC</sub> + 0.5 -0.5 to +6.5 -0.5 to +6.5	
I <sub>IN</sub>	DC Input Current, per Pin		±20	mA
I <sub>OUT</sub>	DC Output Current, Per Pin		±25	mA
I <sub>CC</sub>	DC Supply Current, V <sub>CC</sub> and GND Pins		±50	mA
I <sub>IK</sub>	Input Clamp Current		-20	mA
I <sub>OK</sub>	Output Clamp Current	MC74VHC MC74VHCT	±20 -20	mA
T <sub>STG</sub>	Storage Temperature Range		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for 10 secs		260	°C
TJ	Junction Temperature Under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2)	SOIC-14 QFN14 TSSOP-14	116 130 150	°C/W
P <sub>D</sub>	Power Dissipation in Still Air at 25°C	SOIC-14 QFN14 TSSOP-20	1077 962 833	mW
MSL	Moisture Sensitivity		Level 1	-
F <sub>R</sub>	Flammability Rating Oxygen Index: 28 to 34		UL 94 V-0 @ 0.125 in	-
V <sub>ESD</sub>		uman Body Model ged Device Model	> 2000 2000	V
I <sub>LATCHUP</sub>	Latchup Performance (Note 4)		±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. Applicable to devices with outputs that may be tri–stated.

2. Measured with minimum pad spacing on an FR4 board, using 76 mm-by-114 mm, 2-ounce copper trace no air flow per JESD51-7.

<sup>3.</sup> HBM tested to EIA / JESD22-A114-A. CDM tested to JESD22-C101-A. JEDEC recommends that ESD qualification to EIA/JESD22-A115A (Machine Model) be discontinued.

<sup>4.</sup> Tested to EIA/JÉSD78 Class II.

#### RECOMMENDED OPERATING CONDITIONS

Symbol		Parameter	Min	Max	Unit
MC74VHC	;			•	•
V <sub>CC</sub>	DC Supply Voltage		2.0	5.5	٧
VI	DC Input Voltage (Note 5)	0	5.5	V	
Vo	DC Output Voltage (Note 5)		0	V <sub>CC</sub>	V
T <sub>A</sub>	Operating Temperature		-55	+125	°C
t <sub>r</sub> , t <sub>f</sub>	Input Rise or Fall Rate	V <sub>CC</sub> = 3.0 V to 3.6 V V <sub>CC</sub> = 4.5 V to 5.5 V	0	100 20	ns/V
MC74VHC	T				
V <sub>CC</sub>	DC Supply Voltage		2.0	5.5	V
VI	DC Input Voltage (Note 5)		0	5.5	V
V <sub>O</sub>	DC Output Voltage (Note 5)	Active Mode (High or Low State) Tristate Mode Power-Off Mode (V <sub>CC</sub> = 0 V)	0 0 0	V <sub>CC</sub> 5.5 5.5	V
T <sub>A</sub>	Operating Temperature		-55	+125	°C
t <sub>r</sub> , t <sub>f</sub>	Input Rise or Fall Rate	V <sub>CC</sub> = 4.5 V to 5.5 V	0	20	ns/V

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.

# DC ELECTRICAL CHARACTERISTICS (MC74VHC50)

			Vcc	٦	Γ <sub>A</sub> = 25°(	2	T <sub>A</sub> ≤	85°C	<b>T</b> <sub>A</sub> ≤ 1	125°C	Uni
Symbol	Parameter	Test Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	t
V <sub>IH</sub>	Minimum High-Level Input Voltage		2.0 3.0 4.5 5.5	1.5 2.0 3.15 3.85			1.5 2.0 3.15 3.85		1.5 2.0 3.15 3.85		V
V <sub>IL</sub>	Maximum Low-Level Input Voltage		2.0 3.0 4.5 5.5			0.5 0.9 1.35 1.65		0.5 0.9 1.35 1.65		0.5 0.9 1.35 1.65	V
V <sub>OH</sub>	Minimum High-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -50 \mu A$	2.0 3.0 4.5	1.9 2.9 4.4	2.0 3.0 4.5		1.9 2.9 4.4		1.9 2.9 4.4		٧
		$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -4 \text{ mA}$ $I_{OH} = -8 \text{ mA}$	3.0 4.5	2.58 3.94			2.48 3.80		2.34 3.66		٧
V <sub>OL</sub>	Maximum Low-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = 50  \mu\text{A}$	2.0 3.0 4.5		0.0 0.0 0.0	0.1 0.1 0.1		0.1 0.1 0.1		0.1 0.1 0.1	V
		$V_{IN} = V_{IH}$ or $V_{IL}$ $I_{OL} = 4$ mA $I_{OL} = 8$ mA	3.0 4.5			0.36 0.36		0.44 0.44		0.52 0.52	V
I <sub>IN</sub>	Maximum Input Leakage Current	V <sub>IN</sub> = 5.5 V or GND	0 to 5.5			±0.1		±1.0		±1.0	μΑ
I <sub>CC</sub>	Maximum Quiescent Supply Current	V <sub>IN</sub> = V <sub>CC</sub> or GND	5.5			2.0		20		40	μΑ

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

<sup>5.</sup> Unused inputs must always be tied to an appropriate logic voltage level (e.g., either GND or V<sub>CC</sub>). Unused outputs must be left open.

### AC ELECTRICAL CHARACTERISTICS (MC74VHC50)

			7	Γ <sub>A</sub> = 25°0	)	T <sub>A</sub> ≤ 85°C		T <sub>A</sub> ≤ 125°C		Uni
Symbol	Parameter	Test Conditions	Min	Тур	Max	Min	Max	Min	Max	t
t <sub>PLH</sub> , t <sub>PHL</sub>	Maximum Propogation Delay, Input A to Y	$V_{CC} = 3.0 \pm 0.3 \text{ V}$ $C_L = 15 \text{ pF}$ $C_L = 50 \text{ pF}$		5.0 7.5	7.1 10.6		8.5 12.0		10.0 14.5	ns
	input A to 1	$V_{CC} = 5.0 \pm 0.5 \text{ V}$ $C_L = 15 \text{ pF}$ $C_L = 50 \text{ pF}$		3.8 5.3	5.5 7.5		6.5 8.5		8.0 10.0	
C <sub>IN</sub>	Maximum Input Capacitance			4	10		10		10	pF

		Typical @ 25°C, V <sub>CC</sub> = 5.0 V	
$C_{PD}$	Power Dissipation Capacitance (Note 6)	18	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

# NOISE CHARACTERISTICS (MC74VHC50, $C_L = 50 \text{ pF}$ , $V_{CC} = 5.0 \text{ V}$ )

		T <sub>A</sub> = 25°C		
Symbol	nbol Characteristic		Max	Unit
V <sub>OLP</sub>	Quiet Output Maximum Dynamic V <sub>OL</sub>		1.0	V
V <sub>OLV</sub>	Quiet Output Minimum Dynamic V <sub>OL</sub>	-0.8	-1.0	V
V <sub>IHD</sub>	Minimum High Level Dynamic Input Voltage		3.5	V
$V_{ILD}$	Maximum Low Level Dynamic Input Voltage		1.5	V

<sup>6.</sup> C<sub>PD</sub> 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<sub>CC(OPR)</sub> = C<sub>PD</sub> • V<sub>CC</sub> • f<sub>in</sub> + I<sub>CC</sub>. C<sub>PD</sub> is used to determine the no-load dynamic power consumption; P<sub>D</sub> = C<sub>PD</sub> • V<sub>CC</sub><sup>2</sup> • f<sub>in</sub> + I<sub>CC</sub> • V<sub>CC</sub>.

### DC ELECTRICAL CHARACTERISTICS (MC74VHCT50A)

			V <sub>CC</sub>	٦	T <sub>A</sub> = 25°(	)	T <sub>A</sub> ≤	85°C	T <sub>A</sub> ≤	125°C	
Symbol	Parameter	Test Conditions	(V)	Min	Тур	Max	Min	Max	Min	Max	Unit
V <sub>IH</sub>	Minimum High-Level Input Voltage		3.0 4.5 5.5	1.4 2.0 2.0			1.4 2.0 2.0		1.4 2.0 2.0		V
V <sub>IL</sub>	Maximum Low-Level Input Voltage		3.0 4.5 5.5			0.53 0.8 0.8		0.53 0.8 0.8		0.53 0.8 0.8	V
V <sub>OH</sub>	Minimum High-Level Output Voltage V <sub>IN</sub> = V <sub>IH</sub> or V <sub>II</sub>	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OH} = -50 \mu A$	3.0 4.5	2.9 4.4	3.0 4.5		2.9 4.4		2.9 4.4		V
	VIN = VIH OI VIL	$V_{IN} = V_{IH}$ or $V_{IL}$ $I_{OH} = -4$ mA $I_{OH} = -8$ mA	3.0 4.5	2.58 3.94			2.48 3.80		2.34 3.66		V
V <sub>OL</sub>	Maximum Low-Level Output Voltage	$V_{IN} = V_{IH} \text{ or } V_{IL}$ $I_{OL} = 50 \mu A$	3.0 4.5		0.0 0.0	0.1 0.1		0.1 0.1		0.1 0.1	V
	$V_{IN} = V_{IH}$ or $V_{IL}$	$V_{IN} = V_{IH}$ or $V_{IL}$ $I_{OL} = 4$ mA $I_{OL} = 8$ mA	3.0 4.5			0.36 0.36		0.44 0.44		0.52 0.52	V
I <sub>IN</sub>	Maximum Input Leakage Current	V <sub>IN</sub> = 5.5 V or GND	0 to 5.5			±0.1		±1.0		±1.0	μΑ
I <sub>CC</sub>	Maximum Quiescent Supply Current	V <sub>IN</sub> = V <sub>CC</sub> or GND	5.5			2.0		20		40	μΑ
Ісст	Quiescent Supply Current	Input: V <sub>IN</sub> = 3.4 V	5.5			1.35		1.50		1.65	mA
I <sub>OFF</sub>	Output Leakage Current	V <sub>OUT</sub> = 5.5 V	0.0			0.5		5.0		10	μΑ

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

#### AC ELECTRICAL CHARACTERISTICS (MC74VHCT50A)

			٦	Γ <sub>A</sub> = 25°C		T <sub>A</sub> ≤	85°C	<b>T</b> <sub>A</sub> ≤ 1	125°C	
Symbol	Parameter	Test Conditions	Min	Тур	Max	Min	Max	Min	Max	Unit
t <sub>PLH</sub> , t <sub>PHL</sub>	Maximum Propogation Delay, Input A to Y	$V_{CC} = 3.3 \pm 0.3 \text{ V} \qquad \begin{array}{c} C_L = 15 \text{ pF} \\ C_L = 50 \text{ pF} \end{array}$		5.5 8.0	7.9 11.4	1.0 1.0	9.5 13.0			ns
	input A to 1	$V_{CC} = 5.0 \pm 0.5 \text{ V}$ $C_L = 15 \text{ pF}$ $C_L = 50 \text{ pF}$		6.2 7.0	7.5 8.5		8.5 9.5		9.5 10.5	
C <sub>IN</sub>	Maximum Input Capacitance			5	10		10		10	pF

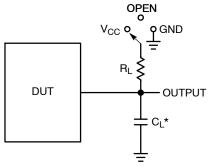
ĺ			Typical @ 25°C, V <sub>CC</sub> = 5.0 V	
	$C_{PD}$	Power Dissipation Capacitance (Note 6)	18	pF

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

7. C<sub>PD</sub> 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:  $I_{CC(OPR)} = C_{PD} \cdot V_{CC} \cdot f_{in} + I_{CC} \cdot C_{PD}$  is used to determine the no–load dynamic power consumption;  $P_D = C_{PD} \cdot V_{CC}^2 \cdot f_{in} + I_{CC} \cdot V_{CC}$ .

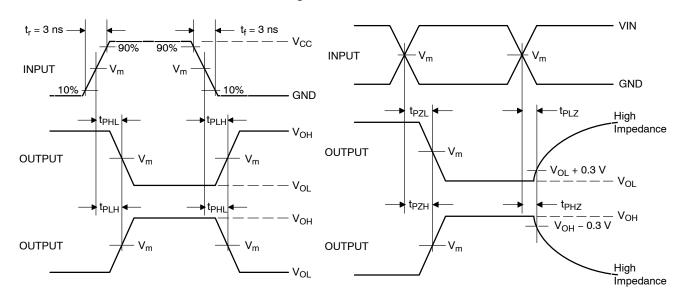
# NOISE CHARACTERISTICS (MC74VHCT50A, $C_L = 50 \text{ pF}$ , $V_{CC} = 5.0 \text{ V}$ )

		T <sub>A</sub> = 25°C		
Symbol	Characteristic		Max	Unit
V <sub>OLP</sub>	Quiet Output Maximum Dynamic V <sub>OL</sub>		1.0	V
V <sub>OLV</sub>	Quiet Output Minimum Dynamic V <sub>OL</sub>	-0.8	-1.0	V
V <sub>IHD</sub>	Minimum High Level Dynamic Input Voltage		2.0	V
V <sub>ILD</sub>	Maximum Low Level Dynamic Input Voltage		0.8	V



<sup>\*</sup>C<sub>L</sub> Includes probe and jig capacitance

Figure 3. Test Circuit



Device	V <sub>IN</sub> , V	V <sub>m</sub> , V				
MC74VHC50	V <sub>CC</sub>	50% x V <sub>CC</sub>				
MC74VHCT50A	3 V	1.5 V				

Figure 4. Switching Waveforms

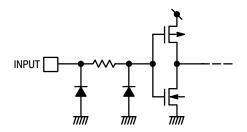


Figure 5. Input Equivalent Circuit

# **ORDERING INFORMATION**

Device	Package	Marking	Shipping <sup>†</sup>
MC74VHC50DG	SOIC-14	VHC50G	55 Units / Rail
MC74VHC50DR2G	SOIC-14	VHC50G	2500 / Tape & Reel
MC74VHC50DTR2G	TSSOP-14	VHC 50	2500 / Tape & Reel
MC74VHC50DTR2G-Q*	TSSOP-14	VHC 50	2500 / Tape & Reel
MC74VHCT50ADR2G	SOIC-14	VHCT50AG	2500 / Tape & Reel
MC74VHCT50ADTR2G	TSSOP-14	VHCT 50A	2500 / Tape & Reel
MC74VHCT50ADTR2G-Q*	TSSOP-14	VHCT 50A	2500 / Tape & Reel

<sup>†</sup>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.

<sup>\*-</sup>Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

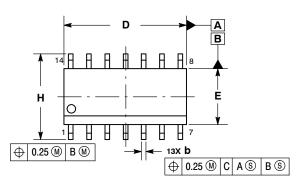


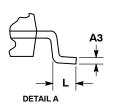


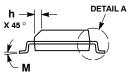
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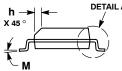
SOIC-14 NB CASE 751A-03 ISSUE L

**DATE 03 FEB 2016** 





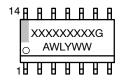




- NOTES:
  1. DIMENSIONING AND TOLERANCING PER
  - ASME Y14.5M, 1994.
    CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT
- MAXIMUM MATERIAL CONDITION.
  DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
- 5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	1.35	1.75	0.054	0.068
A1	0.10	0.25	0.004	0.010
АЗ	0.19	0.25	0.008	0.010
b	0.35	0.49	0.014	0.019
D	8.55	8.75	0.337	0.344
Е	3.80	4.00	0.150	0.157
е	1.27 BSC		0.050 BSC	
Н	5.80	6.20	0.228	0.244
h	0.25	0.50	0.010	0.019
L	0.40	1.25	0.016	0.049
M	0 °	7°	0 °	7°

#### **GENERIC MARKING DIAGRAM\***

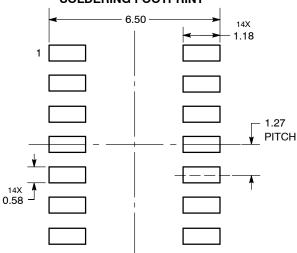


XXXXX = Specific Device Code Α = Assembly Location

WL = Wafer Lot Υ = Year WW = Work Week = 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.

# **SOLDERING FOOTPRINT\***



DIMENSIONS: MILLIMETERS

C SEATING PLANE

#### **STYLES ON PAGE 2**

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

### SOIC-14 CASE 751A-03 ISSUE L

# DATE 03 FEB 2016

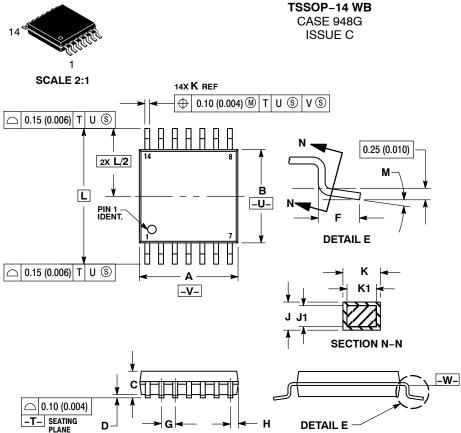
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STYLE 5: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. NO CONNECTION 7. COMMON ANODE 8. COMMON CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. ANODE/CATHODE 12. ANODE/CATHODE 13. NO CONNECTION 14. COMMON ANODE	STYLE 6: PIN 1. CATHODE 2. CATHODE 3. CATHODE 4. CATHODE 5. CATHODE 6. CATHODE 7. CATHODE 8. ANODE 9. ANODE 10. ANODE 11. ANODE 12. ANODE 13. ANODE 14. ANODE	STYLE 7: PIN 1. ANODE/CATHODE 2. COMMON ANODE 3. COMMON CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. ANODE/CATHODE 7. ANODE/CATHODE 8. ANODE/CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. COMMON CATHODE 12. COMMON ANODE 13. ANODE/CATHODE 14. ANODE/CATHODE	STYLE 8: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. NO CONNECTION 5. ANODE/CATHODE 6. ANODE/CATHODE 7. COMMON ANODE 8. COMMON ANODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. NO CONNECTION 12. ANODE/CATHODE 13. ANODE/CATHODE 14. COMMON CATHODE

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**DATE 17 FEB 2016** 





- 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.
  DIMENSION B DOES NOT INCLUDE
- INTERLEAD FLASH OR PROTRUSION.
  INTERLEAD FLASH OR PROTRUSION SHALL
- INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.

  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.

  TERMINAL NUMBERS ARE SHOWN FOR DEEEDENIC OMITY.
- REFERENCE ONLY.
  DIMENSION A AND B ARE TO BE
- DETERMINED AT DATUM PLANE -W-.

	MILLIMETERS		INC	HES
DIM	MIN	MAX	MIN	MAX
Α	4.90	5.10	0.193	0.200
В	4.30	4.50	0.169	0.177
С		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	
Н	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	o o	ρ °	0 °	8 °

#### **GENERIC MARKING DIAGRAM\***



= Assembly Location

L = Wafer Lot = Year = Work Week W

= 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.

#### **RECOMMENDED SOLDERING FOOTPRINT\***

-	7.06
1	
	-
J	PITCH
14X 0.36	_==+
0.36 - 1.26	DIMENSIONS: MILLIMETERS

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

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