

# MC74AC00, MC74ACT00

## Quad 2-Input NAND Gate

### High-Performance Silicon-Gate CMOS

#### Features

- Output Drive Capability:  $\pm 24$  mA
- Operating Voltage Range: 2 to 6 V AC00; 4.5 to 5.5 ACT00
- Low Input Current: 1.0  $\mu$ A
- High Noise Immunity Characteristic of CMOS Devices
- In Compliance With the JEDEC Standard No. 7A Requirements
- Chip Complexity: 32 FETs
- Pb-Free Packages are Available

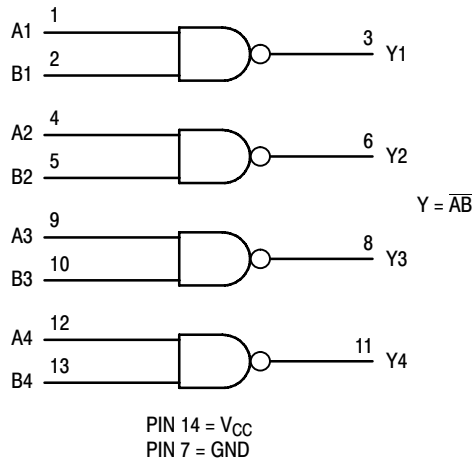


Figure 1. Logic Diagram

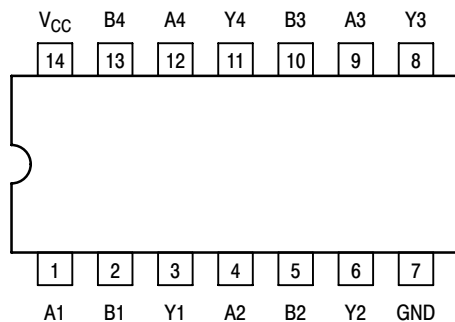


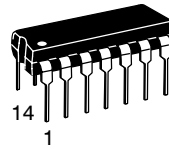
Figure 2. Pinout: 14-Lead Packages (Top View)



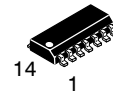
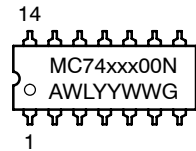
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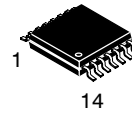
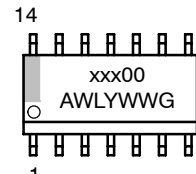
#### MARKING DIAGRAMS



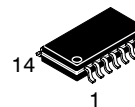
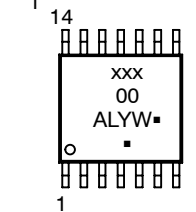
PDIP-14  
N SUFFIX  
CASE 646



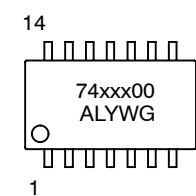
SOIC-14  
D SUFFIX  
CASE 751A



TSSOP-14  
DT SUFFIX  
CASE 948G



SOEIAJ-14  
M SUFFIX  
CASE 965



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

#### FUNCTION TABLE

Inputs		Output
A	B	Y
L	L	H
L	H	H
H	L	H
H	H	L

#### ORDERING INFORMATION

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

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## MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V <sub>CC</sub>	DC Supply Voltage	-0.5 to +7.0	V
V <sub>I</sub>	DC Input Voltage	-0.5 ≤ V <sub>I</sub> ≤ V <sub>CC</sub> + 0.5	V
V <sub>O</sub>	DC Output Voltage (Note 1)	-0.5 ≤ V <sub>O</sub> ≤ V <sub>CC</sub> + 0.5	V
I <sub>IK</sub>	DC Input Diode Current	±20	mA
I <sub>OK</sub>	DC Output Diode Current	±50	mA
I <sub>O</sub>	DC Output Sink/Source Current	±50	mA
I <sub>CC</sub>	DC Supply Current per Output Pin	±50	mA
I <sub>GND</sub>	DC Ground Current per Output Pin	±50	mA
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
T <sub>L</sub>	Lead temperature, 1 mm from Case for 10 Seconds	260	°C
T <sub>J</sub>	Junction temperature under Bias	+150	°C
θ <sub>JA</sub>	Thermal resistance PDIP SOIC TSSOP	78 125 170	°C/W
P <sub>D</sub>	Power Dissipation in Still Air at 85°C PDIP SOIC TSSOP	78 125 170	mW
MSL	Moisture Sensitivity	Level 1	
F <sub>R</sub>	Flammability Rating Oxygen Index: 30% – 35%	UL 94 V-0 @ 0.125 in	
V <sub>ESD</sub>	ESD Withstand Voltage Human Body Model (Note 2) Machine Model (Note 3) Charged Device Model (Note 4)	> 2000 > 200 > 1000	V
I <sub>Latch-Up</sub>	Latch-Up Performance Above V <sub>CC</sub> and Below GND at 85°C (Note 5)	±100	mA

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.

1. I<sub>O</sub> absolute maximum rating must be observed.
2. Tested to EIA/JESD22-A114-A.
3. Tested to EIA/JESD22-A115-A.
4. Tested to JESD22-C101-A.
5. Tested to EIA/JESD78.

## RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter	Min	Typ	Max	Unit
V <sub>CC</sub>	Supply Voltage MC74AC00 MC74ACT00	2.0 4.5	5.0 5.0	6.0 5.5	V
V <sub>in</sub> , V <sub>out</sub>	DC Input Voltage, Output Voltage (Ref. to GND)	0	-	V <sub>CC</sub>	V
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time (Note 6) MC74AC00	V <sub>CC</sub> @ 3.0 V V <sub>CC</sub> @ 4.5 V V <sub>CC</sub> @ 5.5 V	- 150 40 25	- - -	ns/V
t <sub>r</sub> , t <sub>f</sub>	Input Rise and Fall Time (Note 7) MC74ACT00	V <sub>CC</sub> @ 4.5 V V <sub>CC</sub> @ 5.5 V	- 10 8.0	- -	ns/V
T <sub>J</sub>	Junction Temperature	-	-	150	°C
T <sub>A</sub>	Operating Ambient Temperature Range	-55	25	125	°C
I <sub>OH</sub>	Output Current – High	-	-	-24	mA
I <sub>OL</sub>	Output Current – Low	-	-	24	mA

6. V<sub>in</sub> from 30% to 70% V<sub>CC</sub>.
7. V<sub>in</sub> from 0.8 V to 2.0 V.

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## DC CHARACTERISTICS

Symbol	Parameter	V <sub>CC</sub> (V)	MC74AC00				Unit	Conditions		
			T <sub>A</sub> = +25°C		T <sub>A</sub> = -40°C to +85°C				T <sub>A</sub> = -55°C to +125°C	
			Typ	Guaranteed Limits						
V <sub>IH</sub>	Minimum High Level Input Voltage	3.0	1.5	2.1	2.1		2.1		V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V
		4.5	2.25	3.15	3.15		3.15			
		5.5	2.75	3.85	3.85		3.85			
V <sub>IL</sub>	Maximum Low Level Input Voltage	3.0	1.5	0.9	0.9		0.9		V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V
		4.5	2.25	1.35	1.35		1.35			
		5.5	2.75	1.65	1.65		1.65			
V <sub>OH</sub>	Minimum High Level Output Voltage	3.0	2.99	2.9	2.9		2.9		V	I <sub>OUT</sub> = -50 μA
		4.5	4.49	4.4	4.4		4.4			
		5.5	5.49	5.4	5.4		5.4			
		3.0	-	2.56	2.46		2.4		V	*V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> -12 mA I <sub>OH</sub> -24 mA -24 mA
		4.5	-	3.86	3.76		3.7			
		5.5	-	4.86	4.76		4.7			
V <sub>OL</sub>	Maximum Low Level Output Voltage	3.0	0.002	0.1	0.1		0.1		V	I <sub>OUT</sub> = 50 μA
		4.5	0.001	0.1	0.1		0.1			
		5.5	0.001	0.1	0.1		0.1			
		3.0	-	0.36	0.44		0.5		V	*V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> 12 mA I <sub>OL</sub> 24 mA 24 mA
		4.5	-	0.36	0.44		0.5			
		5.5	-	0.36	0.44		0.5			
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	-	±0.1	±1.0		±1.0		μA	V <sub>I</sub> = V <sub>CC</sub> , GND
I <sub>OLD</sub>	†Minimum Dynamic Output Current	5.5	-	-	75		50		mA	V <sub>OLD</sub> = 1.65 V Max
I <sub>OHD</sub>		5.5	-	-	-75		-50		mA	V <sub>OHD</sub> = 3.85 V Min
I <sub>CC</sub>	Maximum Quiescent Supply Current	5.5	-	4.0	40		40		μA	V <sub>IN</sub> = V <sub>CC</sub> 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<sub>IN</sub> and I<sub>CC</sub> @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V<sub>CC</sub>.

## AC CHARACTERISTICS (t<sub>r</sub> = t<sub>f</sub> = 3.0 nS; C<sub>L</sub> = 50 pF; see Figures 3 and 4 for Waveforms)

Symbol	Parameter	V <sub>CC</sub> * (V)	MC74AC00						Unit	
			T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -55°C to +125°C		
			Min	Typ	Max	Min	Max	Min		Max
t <sub>PLH</sub>	Propagation Delay	3.3	2.0	7.0	9.5	2.0	10.0	1.0	11.0	ns
		5.0	1.5	6.0	8.0	1.5	8.5	1.0	8.5	
t <sub>PHL</sub>	Propagation Delay	3.3	1.5	5.5	8.0	1.0	8.5	1.0	9.0	ns
		5.0	1.5	4.5	6.5	1.0	7.0	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.

# MC74AC00, MC74ACT00

## DC CHARACTERISTICS

Symbol	Parameter	V <sub>CC</sub> (V)	MC74ACT00				Unit	Conditions
			T <sub>A</sub> = +25°C		T <sub>A</sub> = -40°C to +85°C	T <sub>A</sub> = -55°C to +125°C		
			Typ	Guaranteed Limits				
V <sub>IH</sub>	Minimum High Level Input Voltage	4.5	1.5	2.0	2.0	2.0	V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V
		5.5	1.5	2.0	2.0	2.0		
V <sub>IL</sub>	Maximum Low Level Input Voltage	4.5	1.5	0.8	0.8	0.8	V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> - 0.1 V
		5.5	1.5	0.8	0.8	0.8		
V <sub>OH</sub>	Minimum High Level Output Voltage	4.5	4.49	4.4	4.4	4.4	V	I <sub>OUT</sub> = -50 μA
		5.5	5.49	5.4	5.4	5.4		
		4.5	-	3.86	3.76	3.7	V	*V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> I <sub>OH</sub> = -24 mA -24 mA
		5.5	-	4.86	4.76	4.7		
V <sub>OL</sub>	Maximum Low Level Output Voltage	4.5	0.001	0.1	0.1	0.1	V	I <sub>OUT</sub> = 50 μA
		5.5	0.001	0.1	0.1	0.1		
		4.5	-	0.36	0.44	0.5	V	*V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> I <sub>OL</sub> = 24 mA 24 mA
		5.5	-	0.36	0.44	0.5		
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	±1.0	μA	V <sub>I</sub> = V <sub>CC</sub> , GND
ΔI <sub>CCT</sub>	Additional Max. I <sub>CC</sub> /Input	5.5	0.6	-	1.5	1.6	mA	V <sub>I</sub> = V <sub>CC</sub> - 2.1 V
I <sub>OLD</sub>	†Minimum Dynamic Output Current	5.5	-	-	75	50	mA	V <sub>OLD</sub> = 1.65 V Max
I <sub>OHD</sub>		5.5	-	-	-75	-50	mA	V <sub>OHD</sub> = 3.85 V Min
I <sub>CC</sub>	Maximum Quiescent Supply Current	5.5	-	4.0	40	40	μA	V <sub>IN</sub> = V <sub>CC</sub> 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 (t<sub>r</sub> = t<sub>f</sub> = 3.0 nS; C<sub>L</sub> = 50 pF; see Figures 3 and 4 for Waveforms)

Symbol	Parameter	V <sub>CC</sub> * (V)	MC74ACT00						Unit	
			T <sub>A</sub> = +25°C			T <sub>A</sub> = -40°C to +85°C		T <sub>A</sub> = -55°C to +125°C		
			Min	Typ	Max	Min	Max	Min		Max
t <sub>PLH</sub>	Propagation Delay	5.0	1.5	5.5	9.0	1.0	9.5	1.0	9.5	ns
t <sub>PHL</sub>	Propagation Delay	5.0	1.5	4.0	7.0	1.0	8.0	1.0	8.0	ns

\*Voltage Range 5.0 V is 5.0 V ± 0.5 V.

## CAPACITANCE

Symbol	Parameter	Value Typ	Test Conditions	Unit
C <sub>IN</sub>	Input Capacitance	4.5	V <sub>CC</sub> = 5.0 V	pF
C <sub>PD</sub>	Power Dissipation Capacitance	30	V <sub>CC</sub> = 5.0 V	pF

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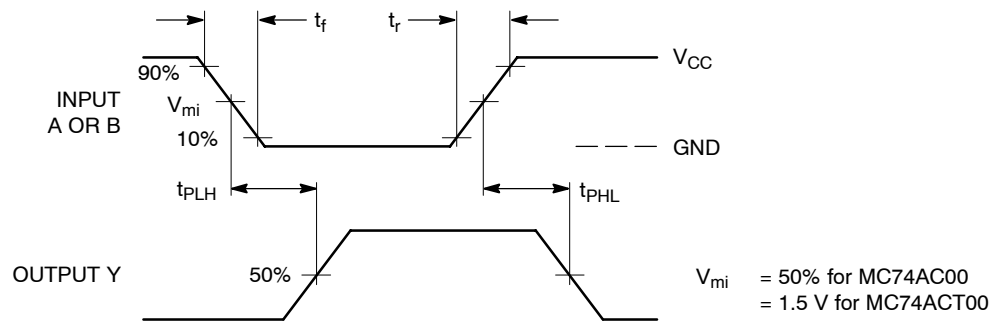
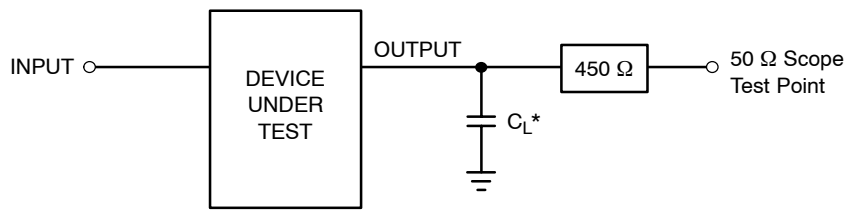


Figure 3. Switching Waveforms



\*Includes all probe and jig capacitance

Figure 4. Test Circuit

## MC74AC00, MC74ACT00

### ORDER INFORMATION

Device	Package	Shipping†
MC74AC00D	SOIC-14	55 Units / Rail
MC74AC00DG	SOIC-14 (Pb-Free)	
MC74AC00N	PDIP-14	25 Units / Rail
MC74AC00NG	PDIP-14 (Pb-Free)	
MC74AC00DR2	SOIC-14	2500 / Tape and Reel
MC74AC00DR2G	SOIC-14 (Pb-Free)	
MC74AC00DTR2	TSSOP-14*	
MC74AC00DTR2G	TSSOP-14*	
MC74AC00MEL	SOEIAJ-14	2000 / Tape and Reel
MC74AC00MELG	SOEIAJ-14 (Pb-Free)	
MC74ACT00N	PDIP-14	25 Units / Rail
MC74ACT00NG	PDIP-14 (Pb-Free)	
MC74ACT00D	SOIC-14	55 Units / Rail
MC74ACT00DG	SOIC-14 (Pb-Free)	
MC74ACT00DR2	SOIC-14	2500 / Tape and Reel
MC74ACT00DR2G	SOIC-14 (Pb-Free)	
MC74ACT00DTR2	TSSOP-14*	
MC74ACT00DTR2G	TSSOP-14*	
MC74ACT00MEL	SOEIAJ-14	2000 / Tape and Reel
MC74ACT00MELG	SOEIAJ-14 (Pb-Free)	

†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.

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## PACKAGE DIMENSIONS

SOIC-14  
CASE 751A-03  
ISSUE H

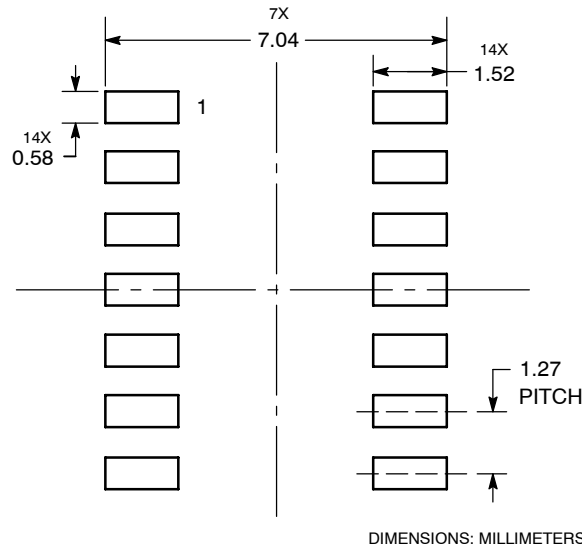


**NOTES:**

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

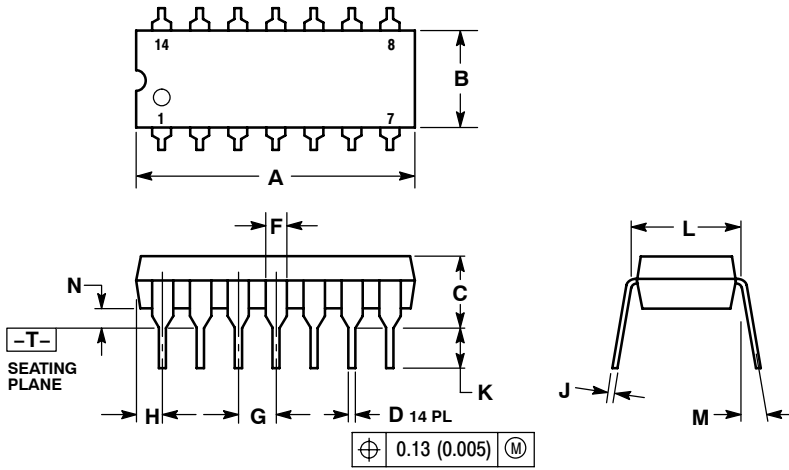
### SOLDERING FOOTPRINT\*



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

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**PDIP-14**  
CASE 646-06  
ISSUE P



**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. DIMENSION L TO CENTER OF LEADS WHEN FORMED PARALLEL.
4. DIMENSION B DOES NOT INCLUDE MOLD FLASH.
5. ROUNDED CORNERS OPTIONAL.

DIM	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	0.715	0.770	18.16	19.56
B	0.240	0.260	6.10	6.60
C	0.145	0.185	3.69	4.69
D	0.015	0.021	0.38	0.53
F	0.040	0.070	1.02	1.78
G	0.100 BSC		2.54 BSC	
H	0.052	0.095	1.32	2.41
J	0.008	0.015	0.20	0.38
K	0.115	0.135	2.92	3.43
L	0.290	0.310	7.37	7.87
M	---	10°	---	10°
N	0.015	0.039	0.38	1.01



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## PACKAGE DIMENSIONS

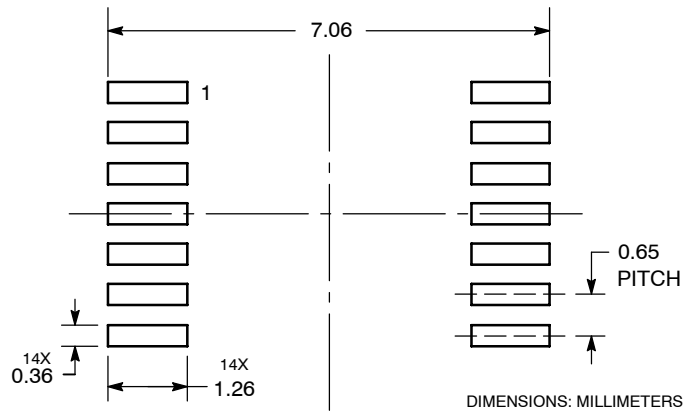
TSSOP-14  
CASE 948G-01  
ISSUE B



- 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	0.50	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°

### 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.

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## PACKAGE DIMENSIONS

SOEIAJ-14  
CASE 965-01  
ISSUE A



### 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	0.10	0.20	0.004	0.008
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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