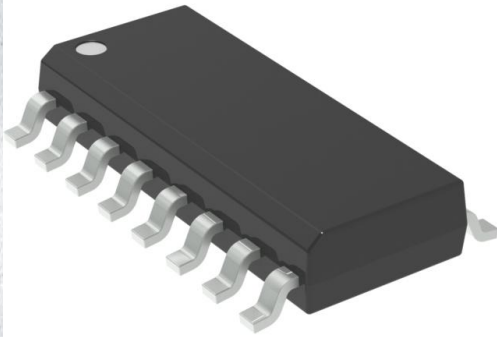


# NLV74HC251ADR2G Datasheet

[www.digi-electronics.com](http://www.digi-electronics.com)



<https://www.DiGi-Electronics.com>

DiGi Electronics Part Number	NLV74HC251ADR2G-DG
Manufacturer	<a href="#">onsemi</a>
Manufacturer Product Number	NLV74HC251ADR2G
Description	IC MULTIPLEXER 1 X 8:1 16SOIC
Detailed Description	Multiplexer 1 x 8:1 16-SOIC



Tel: +00 852-30501935

RFQ Email: [Info@DiGi-Electronics.com](mailto:Info@DiGi-Electronics.com)

DiGi is a global authorized distributor of electronic components.

## Purchase and inquiry

Manufacturer Product Number:

NLV74HC251ADR2G

Series:

74HC

Type:

Multiplexer

Independent Circuits:

1

Voltage Supply Source:

Single Supply

Operating Temperature:

-55°C ~ 125°C

Package / Case:

16-SOIC (0.154", 3.90mm Width)

Base Product Number:

74HC251

Manufacturer:

onsemi

Product Status:

Obsolete

Circuit:

1 x 8:1

Current - Output High, Low:

5.2mA, 5.2mA

Voltage - Supply:

2V ~ 6V

Mounting Type:

Surface Mount

Supplier Device Package:

16-SOIC

## Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

1 (Unlimited)

ECCN:

EAR99

# 8-Input Data Selector/ Multiplexer with 3-State Outputs

## High-Performance Silicon-Gate CMOS

### MC74HC251A

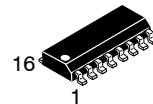
The MC74HC251 is identical in pinout to the LS251. The device inputs are compatible with standard CMOS outputs; with pullup resistors, they are compatible with LSTTL outputs.

This device selects one of the eight binary Data Inputs, as determined by the Address Inputs. The Output Enable pin must be a low level for the selected data to appear at the outputs. If Output Enable is high, both the Y and the  $\bar{Y}$  outputs are in the high-impedance state. This 3-state feature allows the HC251 to be used in bus-oriented systems.

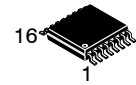
The HC251 is similar in function to the HC251 which does not have 3-state outputs.

#### Features

- Output Drive Capability: 10 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS, and TTL
- Operating Voltage Range: 2 to 6 V
- Low Input Current: 1  $\mu$ A
- High Noise Immunity Characteristic of CMOS Devices
- -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, Halogen Free/BFR Free and are RoHS Compliant



SOIC-16  
 D SUFFIX  
 CASE 751B

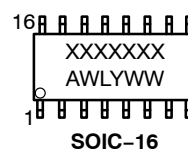


TSSOP-16  
 DT SUFFIX  
 CASE 948F

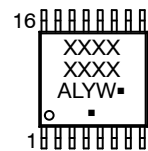


QFN16  
 MN SUFFIX  
 CASE 485AW

#### MARKING DIAGRAMS



SOIC-16



TSSOP-16

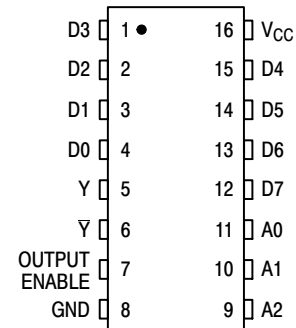


QFN16

- XXXXXXX = Specific Device Code
- A = Assembly Location
- WL, L = Wafer Lot
- Y = Year
- WW, W = Work Week
- G or  $\blacksquare$  = Pb-Free Package

(Note: Microdot may be in either location)

#### PIN ASSIGNMENT



#### ORDERING INFORMATION

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

### MC74HC251A

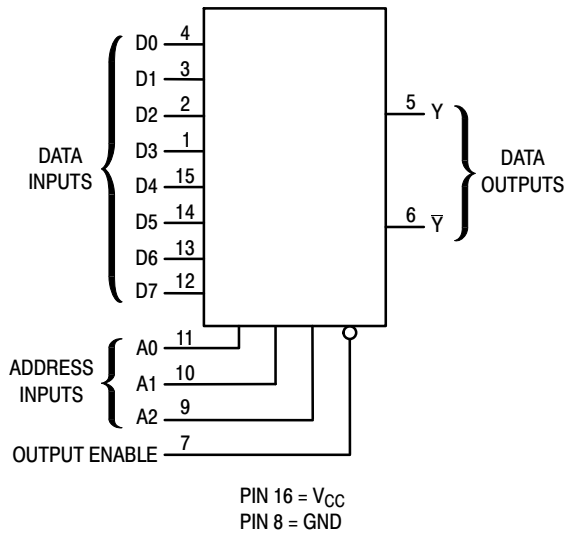


Figure 1. Logic Diagram

### FUNCTION TABLE

Inputs			Outputs		
A2	A1	A0	Output Enabled	Y	$\bar{Y}$
X	X	X	H	Z	$\bar{Z}$
L	L	L	L	D0	$\bar{D0}$
L	L	H	L	D1	$\bar{D1}$
L	H	L	L	D2	$\bar{D2}$
L	H	H	L	D3	$\bar{D3}$
H	L	L	L	D4	$\bar{D4}$
H	L	H	L	D5	$\bar{D5}$
H	H	L	L	D6	$\bar{D6}$
H	H	H	L	D7	$\bar{D7}$

Z = high impedance  
 D0, D1, ..., D7 = the level of the respective D input.

### MAXIMUM RATINGS

Symbol	Parameter	Value	Unit	
$V_{CC}$	DC Supply Voltage	-0.5 to +6.5	V	
$V_{IN}$	DC Input Voltage	-0.5 to $V_{CC}+0.5$	V	
$V_{OUT}$	DC Output Voltage	-0.5 to $V_{CC}+0.5$	V	
$I_{IN}$	DC Input Diode Current, per Pin	$\pm 20$	mA	
$I_{OUT}$	DC Input Diode Current, Per Pin	$\pm 25$	mA	
$I_{CC}$	DC Supply Current, $V_{CC}$ and GND Pins	$\pm 50$	mA	
$I_{IK}$	Input Clamp Current ( $V_{IN} < 0$ or $V_{IN} > V_{CC}$ )	$\pm 20$	mA	
$I_{OK}$	Output Clamp Current ( $V_{OUT} < 0$ or $V_{OUT} > V_{CC}$ )	$\pm 20$	mA	
$T_{STG}$	Storage Temperature Range	-65 to +150	$^{\circ}C$	
$T_L$	Lead Temperature, 1 mm from Case for 10 secs	260	$^{\circ}C$	
$T_J$	Junction Temperature Under Bias	+150	$^{\circ}C$	
$\theta_{JA}$	Thermal Resistance (Note 1)	SOIC-16 QFN16 TSSOP-16	126 118 159	$^{\circ}C/W$
$P_D$	Power Dissipation in Still Air at 25 $^{\circ}C$	SOIC-16 QFN16 TSSOP-16	995 1062 787	mW
MSL	Moisture Sensitivity	Level 1	-	
$F_R$	Flammability Rating	Oxygen Index: 28 to 34	UL 94 V-0 @ 0.125 in	-
$V_{ESD}$	ESD Withstand Voltage (Note 2)	Human Body Model Charged Device Model	2000 N/A	V

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

**MC74HC251A****RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Max	Unit
$V_{CC}$	DC Supply Voltage	2.0	6.0	V
$V_{in}, V_{out}$	DC Input Voltage, Output Voltage (Note 3)	0	$V_{CC}$	V
$T_A$	Operating Temperature, All Package Types	-55	+125	°C
$t_r, t_f$	Input Rise and Fall Time	$V_{CC} = 2.0\text{ V}$ $V_{CC} = 4.5\text{ V}$ $V_{CC} = 6.0\text{ V}$	1000 500 400	ns

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.

3. 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.

**DC ELECTRICAL CHARACTERISTICS**

Symbol	Parameter	Test Conditions	$V_{CC}$ V	Guaranteed Limit			Unit
				- 55 to 25°C	≤ 85°C	≤ 125°C	
$V_{IH}$	Minimum High-Level Input Voltage	$V_{out} = 0.1\text{ V or } V_{CC} - 0.1\text{ V}$ $ I_{out}  \leq 20\ \mu\text{A}$	2.0	1.5	1.5	1.5	V
			4.5	3.15	3.15	3.15	
			6.0	4.2	4.2	4.2	
$V_{IL}$	Maximum Low-Level Input Voltage	$V_{out} = 0.1\text{ V or } V_{CC} - 0.1\text{ V}$ $ I_{out}  \leq 20\ \mu\text{A}$	2.0	0.3	0.3	0.3	V
			4.5	0.9	0.9	0.9	
			6.0	1.2	1.2	1.2	
$V_{OH}$	Minimum High-Level Output Voltage	$V_{in} = V_{IH}\text{ or } V_{IL}$ $ I_{out}  \leq 20\ \mu\text{A}$	2.0	1.9	1.9	1.9	V
			4.5	4.4	4.4	4.4	
		6.0	5.9	5.9	5.9		
		$V_{in} = V_{IH}\text{ or } V_{IL}$ $ I_{out}  \leq 4.0\text{ mA}$ $ I_{out}  \leq 5.2\text{ mA}$	4.5	3.98	3.84	3.70	
6.0	5.48	5.34	5.20				
$V_{OL}$	Maximum Low-Level Output Voltage	$V_{in} = V_{IH}\text{ or } V_{IL}$ $ I_{out}  \leq 20\ \mu\text{A}$	2.0	0.1	0.1	0.1	V
			4.5	0.1	0.1	0.1	
		6.0	0.1	0.1	0.1		
		$V_{in} = V_{IH}\text{ or } V_{IL}$ $ I_{out}  \leq 4.0\text{ mA}$ $ I_{out}  \leq 5.2\text{ mA}$	4.5	0.26	0.33	0.40	
6.0	0.26	0.33	0.40				
$I_{in}$	Maximum Input Leakage Current	$V_{in} = V_{CC}\text{ or GND}$	6.0	± 0.1	± 1.0	± 1.0	μA
$I_{OZ}$	Maximum Three-State Leakage Current	Output in High-Impedance State $V_{in} = V_{IL}\text{ or } V_{IH}$ $V_{out} = V_{CC}\text{ or GND}$	6.0	± 0.5	± 5.0	± 10	μA
$I_{CC}$	Maximum Quiescent Supply Current (per Package)	$V_{in} = V_{CC}\text{ or GND}$ $I_{out} = 0\ \mu\text{A}$	6.0	8	80	160	μA

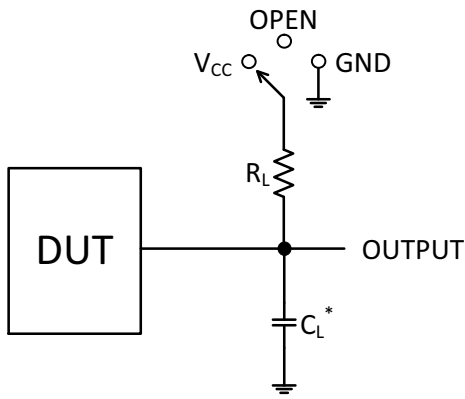
Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

**MC74HC251A****AC ELECTRICAL CHARACTERISTICS**

Symbol	Parameter	V <sub>CC</sub> V	Guaranteed Limit			Unit
			- 55 to 25°C	≤ 85°C	≤ 125°C	
t <sub>PLH</sub> , t <sub>PHL</sub>	Maximum Propagation Delay, Input D to Output Y or $\bar{Y}$ (Figures 2, 3, 4)	2.0 4.5 6.0	185 37 31	230 46 39	280 56 48	ns
t <sub>PLH</sub> , t <sub>PHL</sub>	Maximum Propagation Delay, Input A to Output Y or $\bar{Y}$ (Figures 2, 5)	2.0 4.5 6.0	205 41 35	255 51 43	310 62 53	ns
t <sub>PLZ</sub> , t <sub>PHZ</sub>	Maximum Propagation Delay, Output Enable to Output Y (Figures 5, 7)	2.0 4.5 6.0	195 39 33	245 49 42	295 59 50	ns
t <sub>PZL</sub> , t <sub>PZH</sub>	Maximum Propagation Delay, Output Enable to Output Y (Figures 2, 6)	2.0 4.5 6.0	145 29 25	180 36 31	220 44 38	ns
t <sub>PLZ</sub> , t <sub>PHZ</sub>	Maximum Propagation Delay, Output Enable to Output $\bar{Y}$ (Figures 2, 6)	2.0 4.5 6.0	220 44 37	275 55 47	330 66 56	ns
t <sub>PZL</sub> , t <sub>PZH</sub>	Maximum Propagation Delay, Output Enable to Output $\bar{Y}$ (Figures 2, 6)	2.0 4.5 6.0	150 30 26	190 38 33	225 45 38	ns
t <sub>TLH</sub> , t <sub>THL</sub>	Maximum Output Transition Time, Any Output (Figures 2, 3, 4)	2.0 4.5 6.0	75 15 13	95 19 16	110 22 19	ns
C <sub>in</sub>	Maximum Input Capacitance	-	10	10	10	pF
C <sub>out</sub>	Maximum Three-State Output Capacitance (Output in High-Impedance State)	-	15	15	15	pF

C <sub>PD</sub>	Power Dissipation Capacitance (Per Package)	Typical @ 25°C, V <sub>CC</sub> = 5.0 V			pF
		36			

**MC74HC251A**

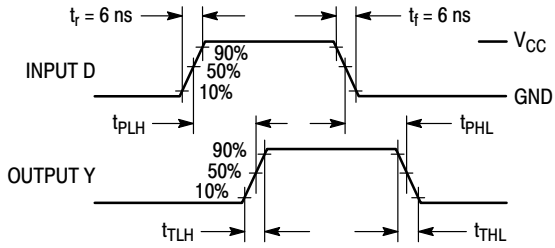


\*C<sub>L</sub> Includes probe and jig capacitance

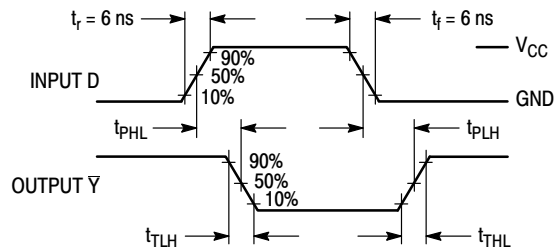
Test	Switch Position	C <sub>L</sub>	R <sub>L</sub>
t <sub>PLH</sub> / t <sub>PHL</sub>	Open	50 pF	1 kΩ
t <sub>PLZ</sub> / t <sub>PZL</sub>	V <sub>CC</sub>		
t <sub>PHZ</sub> / t <sub>PZH</sub>	GND		

**Figure 2. Test Circuit**

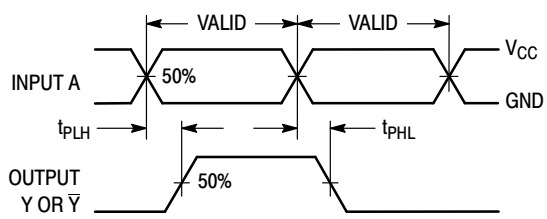
**SWITCHING WAVEFORMS**



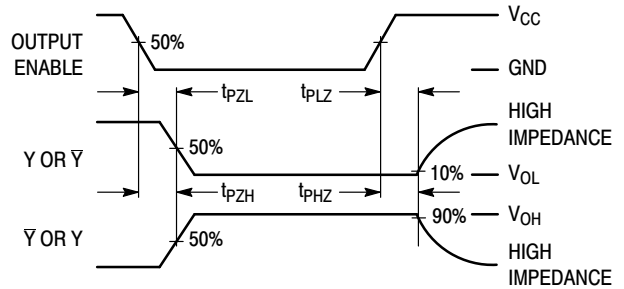
**Figure 3.**



**Figure 4.**



**Figure 5.**



**Figure 6.**

**MC74HC251A****PIN DESCRIPTIONS****ADDRESS INPUTS****A0, A1, A2 (Pins 1, 2, 3)**

Address inputs. These inputs, when the chip is selected, determine which of the eight outputs is active-low.

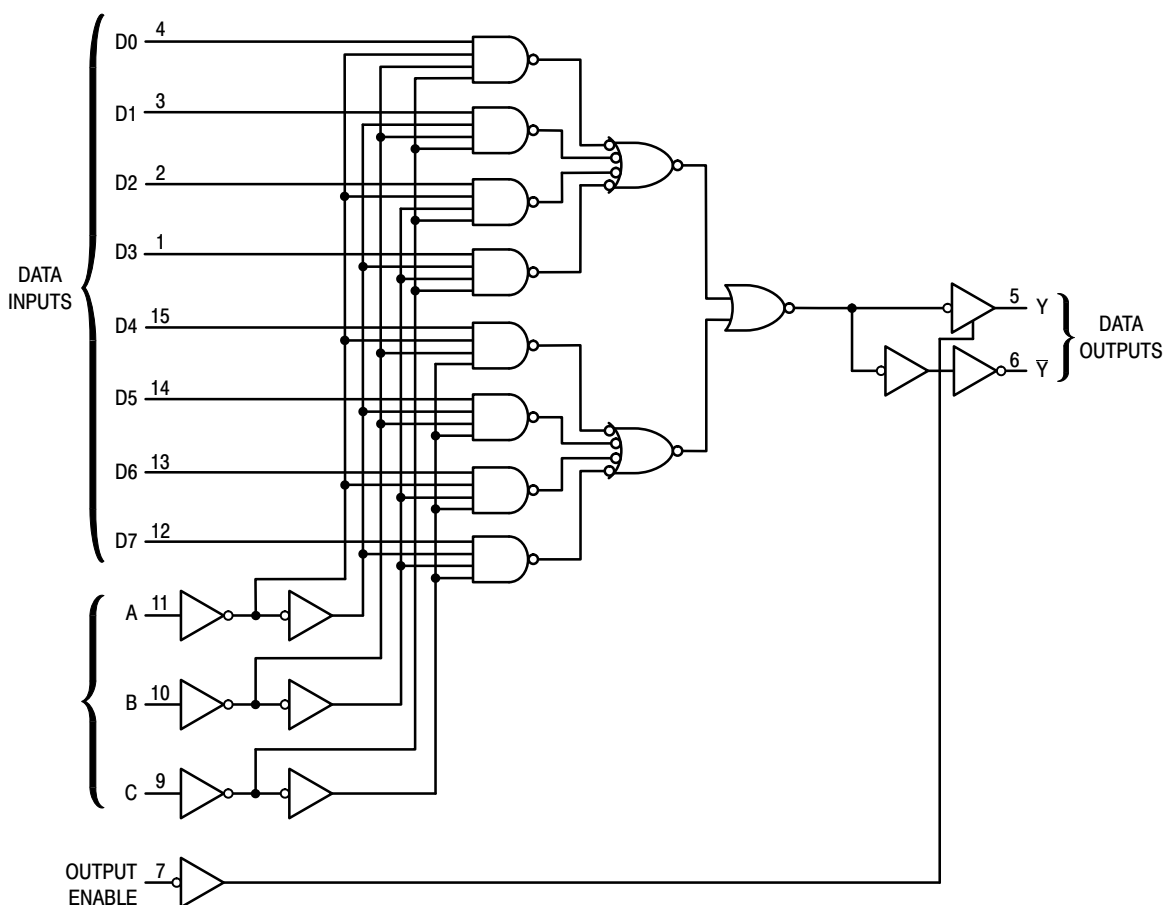
**CONTROL INPUTS****CS1, CS2, CS3 (Pins 6, 4, 5)**

Chip select inputs. For CS1 at a high level and CS2, CS3 at a low level, the chip is selected and the outputs follow the

Address inputs. For any other combination of CS1, CS2, and CS3, the outputs are at a logic low.

**OUTPUTS****Y0 – Y7 (Pins 15, 14, 13, 12, 11, 10, 9, 7)**

Active-high Decoded outputs. These outputs assume a high level when addressed and the chip is selected. These outputs remain low when not addressed or the chip is not selected.

**Figure 7. Expanded Logic Diagram****ORDERING INFORMATION**

Device	Marking	Package	Shipping†
MC74HC251ADG	HC251AG	SOIC-16	48 Units / Rail
MC74HC251ADR2G	HC251AG	SOIC-16	2500 Units / Tape & Reel
MC74HC251ADR2G-Q*	HC251AG	SOIC-16	2500 Units / Tape & Reel
MC74HC251ADTG	HC 251A	TSSOP-16	96 Units / Rail
MC74HC251ADTR2G	HC 251A	TSSOP-16	2500 Units / 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.

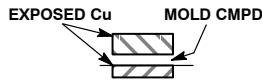
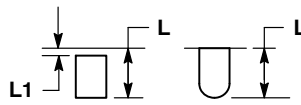
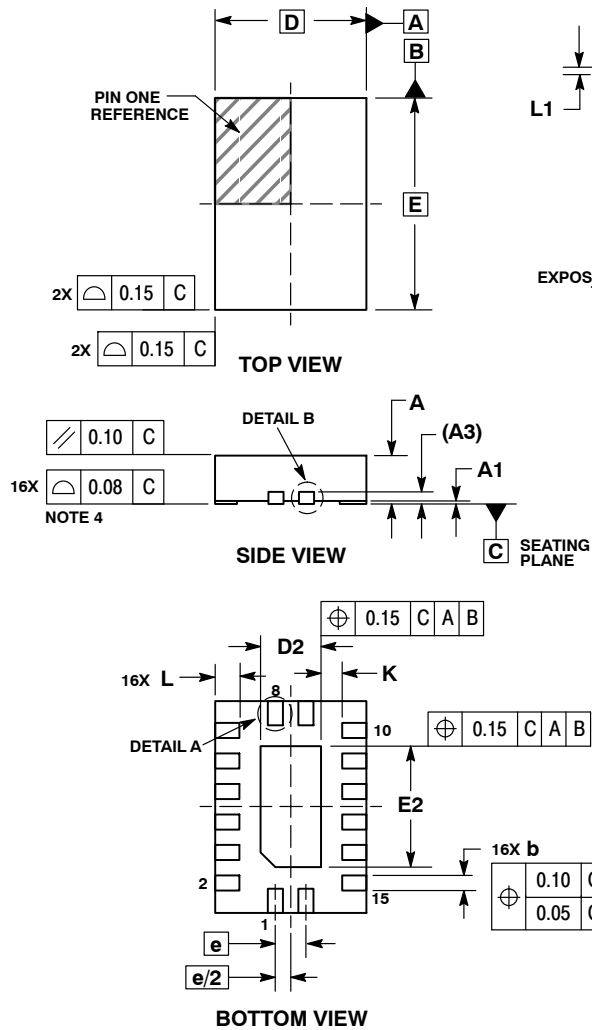
\*-Q Suffix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.



# MC74HC251A

## PACKAGE DIMENSIONS

**QFN16, 2.5x3.5, 0.5P**  
**CASE 485AW**  
**ISSUE O**

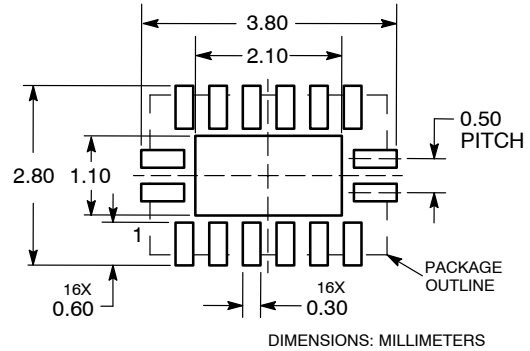


**NOTES:**

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSIONS b APPLIES TO PLATED TERMINAL AND IS MEASURED BETWEEN 0.15 AND 0.30 MM FROM TERMINAL.
4. COPLANARITY APPLIES TO THE EXPOSED PAD AS WELL AS THE TERMINALS.

MILLIMETERS		
DIM	MIN	MAX
A	0.80	1.00
A1	0.00	0.05
A3	0.20 REF	
b	0.20	0.30
D	2.50 BSC	
D2	0.85	1.15
E	3.50 BSC	
E2	1.85	2.15
e	0.50 BSC	
K	0.20	---
L	0.35	0.45
L1	---	0.15

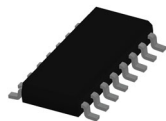
### RECOMMENDED SOLDERING FOOTPRINT\*



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



**MECHANICAL CASE OUTLINE  
PACKAGE DIMENSIONS**

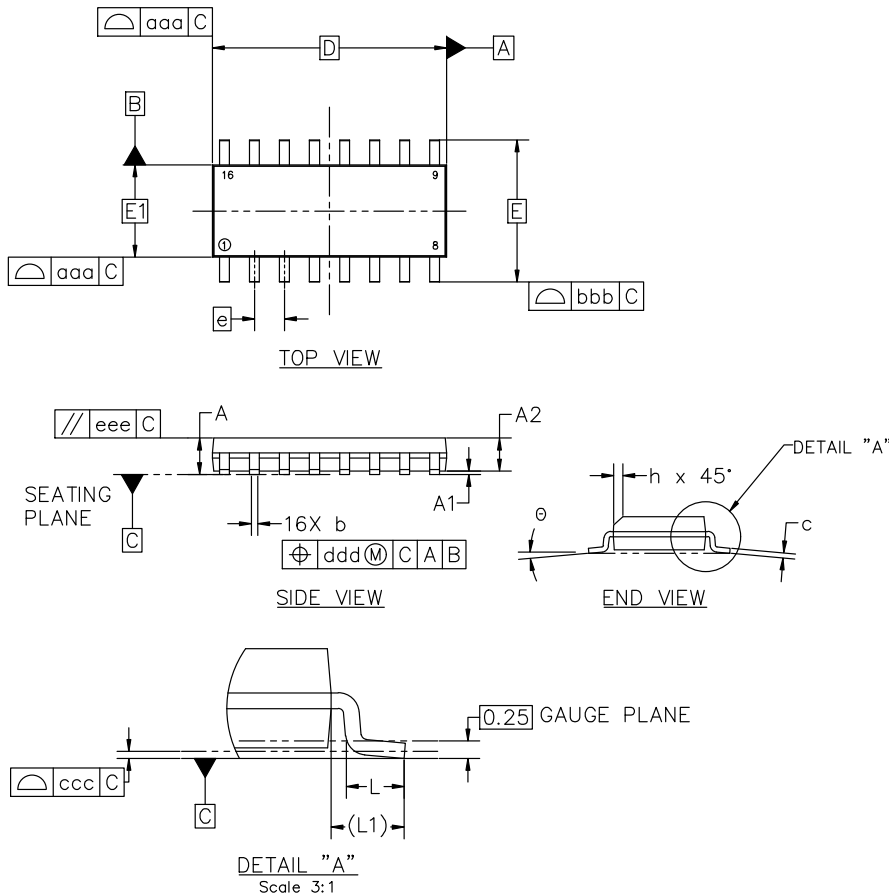


**SOIC-16 9.90x3.90x1.37 1.27P  
CASE 751B  
ISSUE M**

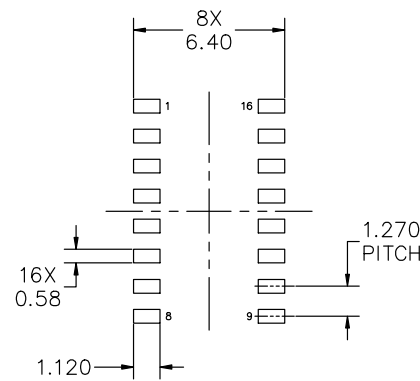
DATE 18 OCT 2024

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		
$\theta$	0°	---	7°
TOLERANCE OF FORM AND POSITION			
aaa	0.10		
bbb	0.20		
ccc	0.10		
ddd	0.25		
eee	0.10		



RECOMMENDED MOUNTING FOOTPRINT

\*FOR ADDITIONAL INFORMATION ON OUR PB-FREE STRATEGY AND SOLDERING DETAILS, PLEASE DOWNLOAD THE onsemi SOLDERING AND MOUNTING TECHNIQUES REFERENCE MANUAL, SOLDERM/D

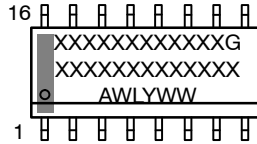
<b>DOCUMENT NUMBER:</b>	<b>98ASB42566B</b>	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.
<b>DESCRIPTION:</b>	<b>SOIC-16 9.90X3.90X1.37 1.27P</b>	<b>PAGE 1 OF 2</b>

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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.

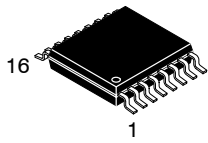
<p><b>STYLE 1:</b></p> <p>PIN 1. COLLECTOR                  2. BASE                  3. EMITTER                  4. NO CONNECTION                  5. EMITTER                  6. BASE                  7. COLLECTOR                  8. COLLECTOR                  9. BASE                  10. EMITTER    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

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<b>DESCRIPTION:</b>	<b>SOIC-16 9.90X3.90X1.37 1.27P</b>	<b>PAGE 2 OF 2</b>

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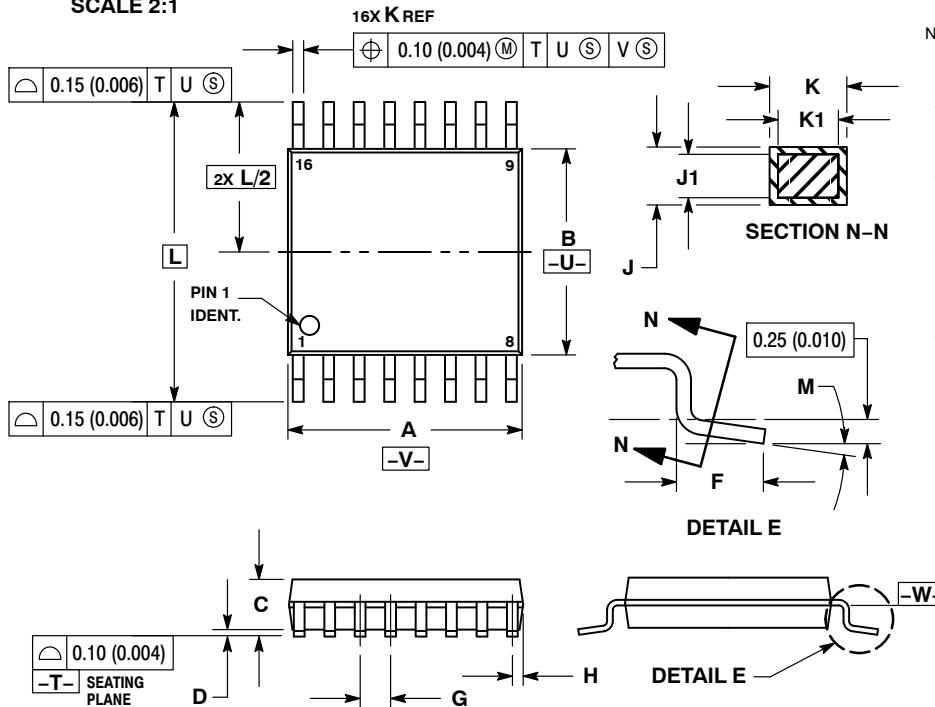


**MECHANICAL CASE OUTLINE  
PACKAGE DIMENSIONS**



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

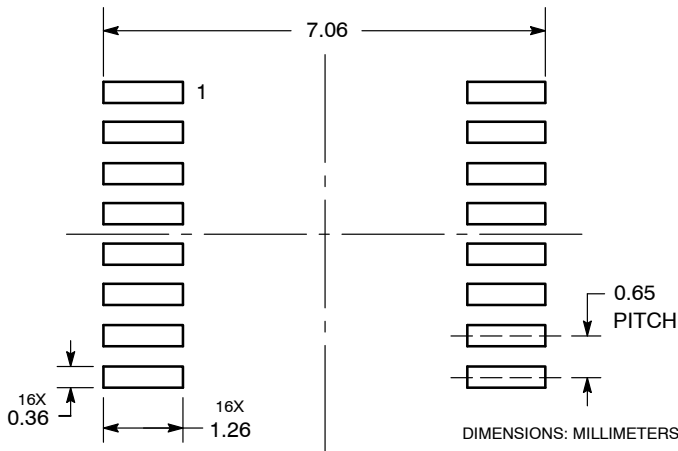
DATE 19 OCT 2006



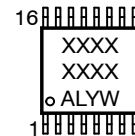
- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: MILLIMETER.
  3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
  4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. 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\***



**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.

\*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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