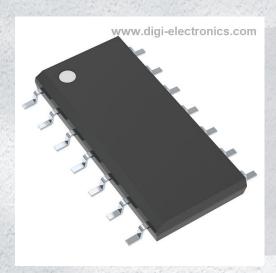


MC74HC32ADG Datasheet



https://www.DiGi-Electronics.com

DiGi Electronics Part Number MC74HC32ADG-DG

Manufacturer onsemi

Manufacturer Product Number MC74HC32ADG

Description IC GATE OR 4CH 2-INP 14SOIC

Detailed Description OR Gate IC 4 Channel 14-SOIC



Tel: +00 852-30501935

RFQ Email: Info@DiGi-Electronics.com

DiGi is a global authorized distributor of electronic components.



Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC74HC32ADG	onsemi
Series:	Product Status:
74HC	Active
Logic Type:	Number of Circuits:
OR Gate	4
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
2V ~ 6V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
5.2mA, 5.2mA	0.5V ~ 1.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.5V ~ 4.2V	13ns @ 6V, 50pF
Operating Temperature:	Mounting Type:
-55°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
14-SOIC	14-SOIC (0.154", 3.90mm Width)
Base Product Number:	
74HC32	

Environmental & Export classification

8542.39.0001

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	



Quad 2-Input OR Gate

High-Performance Silicon-Gate CMOS

MC74HC32A, MC74HCT32A

The MC74HC32A/MC74HCT32A is identical in pinout to the LS32. The MC74HC32A device inputs are compatible with Standard CMOS outputs; with pullup resistors, they are compatible with LSTTL outputs. The MC74HCT32A inputs are compatible with Standard CMOS or TTL outputs.

Features

- Output Drive Capability: 10 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS and TTL
- Operating Voltage Range: 2.0 to 6.0 V (HC), 4.5 to 5.5 V (HCT)
- Low Input Current: 1 μA
- High Noise Immunity Characteristic of CMOS Devices
- In Compliance With the JEDEC Standard No. 7 A Requirements
- Chip Complexity: 48 FETs or 12 Equivalent Gates
- –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

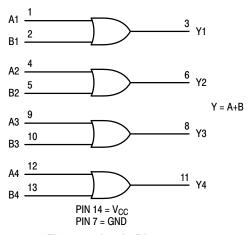


Figure 1. Logic Diagram

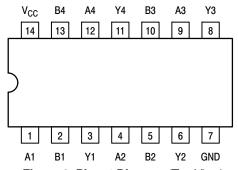
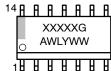


Figure 2. Pinout Diagram (Top View)

MARKING DIAGRAMS



SOIC-14 D SUFFIX CASE 751A





TSSOP-14 DT SUFFIX CASE 948G



XXXX = 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)

FUNCTION TABLE

Inp	uts	Output
АВ		Υ
L	L	L
L	Н	Н
Н	L	н
Н	Н	н
1		I

ORDERING INFORMATION

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

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 Current, per Pin		±20	mA
I _{OUT}	DC Output Current, per Pin		±25	mA
I _{CC}	DC Supply Current, V _{CC} and GND Pins		±50	mA
I _{IK}	Input Clamp Current (V _{IN} < 0 or V _{IN} > V _{CC})		±20	mA
I _{OK}	Output Clamp Current (V _{OUT} < 0 or V _{OUT} > V _{CC})		±20	mA
T _{STG}	Storage Temperature		-65 to +150	°C
TL	Lead Temperature, 1 mm from Case for 10 Seconds		260	°C
TJ	Junction Temperature Under Bias		±150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 1)	SOIC-14 TSSOP-14	116 150	°C/W
P _D	Power Dissipation in Still Air at 25°C	SOIC-14 TSSOP-14	1077 833	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	٧

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.

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

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Max	Unit
MC74HC					
V _{CC}	DC Supply Voltage (Referenced to GND)		2.0	6.0	V
V _{IN} , V _{OUT}	DC Input Voltage, Output Voltage (Referenced to GND) (Note 3)		0	V _{CC}	V
T _A	Operating Free-Air Temperature		- 55	+125	°C
t _r , t _f	V	CC = 2.0 V CC = 4.5 V CC = 6.0 V	0 0 0	1000 500 400	ns
МС74НСТ					
V _{CC}	DC Supply Voltage (Referenced to GND)		4.5	5.5	V
V _{IN} , V _{OUT}	DC Input Voltage, DC Output Voltage (Referenced to GND) (Note 3)		0	V _{CC}	V
T _A	Operating Free-Air Temperature		- 55	+125	°C
t _r , t _f	Input Rise or Fall Time		0	500	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 CHARACTERISTICS (MC74HC32A)

				V _{CC}	Guara	nteed Lim	nit	
Symbol	Parameter	Conditi	on	V	-55 to 25°C	≤ 85 °C	≤125°C	Unit
V _{IH}	Minimum High-Level Input Voltage	$V_{out} = 0.1V \text{ or } V_{CC}$ $ I_{out} \le 20\mu\text{A}$	-0.1V	2.0 3.0 4.5 6.0	1.50 2.10 3.15 4.20	1.50 2.10 3.15 4.20	1.50 2.10 3.15 4.20	٧
V _{IL}	Maximum Low-Level Input Voltage	$V_{out} = 0.1V \text{ or } V_{CC}$ $ I_{out} \le 20 \mu A$	– 0.1V	2.0 3.0 4.5 6.0	0.50 0.90 1.35 1.80	0.50 0.90 1.35 1.80	0.50 0.90 1.35 1.80	٧
V _{OH}	Minimum High-Level Output Voltage	$V_{in} = V_{IH} \text{ or } V_{IL}$ $ I_{out} \le 20 \mu A$		2.0 4.5 6.0	1.9 4.4 5.9	1.9 4.4 5.9	1.9 4.4 5.9	٧
		V _{in} =V _{IH} or V _{IL}	$\begin{aligned} & \left I_{out}\right \leq 2.4 \text{mA} \\ & \left I_{out}\right \leq 4.0 \text{mA} \\ & \left I_{out}\right \leq 5.2 \text{mA} \end{aligned}$	3.0 4.5 6.0	2.48 3.98 5.48	2.34 3.84 5.34	2.20 3.70 5.20	
V _{OL}	Maximum Low-Level Output Voltage	$V_{in} = V_{IH} \text{ or } V_{IL}$ $ I_{out} \le 20 \mu A$		2.0 4.5 6.0	0.1 0.1 0.1	0.1 0.1 0.1	0.1 0.1 0.1	٧
		$V_{in} = V_{IH}$ or V_{IL}	$\begin{aligned} & \left I_{out}\right \leq 2.4 \text{mA} \\ & \left I_{out}\right \leq 4.0 \text{mA} \\ & \left I_{out}\right \leq 5.2 \text{mA} \end{aligned}$	3.0 4.5 6.0	0.26 0.26 0.26	0.33 0.33 0.33	0.40 0.40 0.40	
l _{in}	Maximum Input Leakage Current	V _{in} = V _{CC} or GND		6.0	±0.1	±1.0	±1.0	μΑ
I _{CC}	Maximum Quiescent Supply Current (per Package)	$V_{in} = V_{CC}$ or GND $I_{out} = 0\mu A$		6.0	1.0	10	40	μΑ

AC CHARACTERISTICS (MC74HC32A)

		v _{cc}	Gua	aranteed Lim	nit	
Symbol	Parameter	V	-55 to 25°C	≤ 85 °C	≤125°C	Unit
t _{PLH} , t _{PHL}	Maximum Propagation Delay, (A or B) to Y (Figures 3 and 4)	2.0 3.0 4.5 6.0	75 30 15 13	95 40 19 16	110 55 22 19	ns
t _{TLH} , t _{THL}	Maximum Output Transition Time, Any Output (Figures 3 and 4)	2.0 3.0 4.5 6.0	75 27 15 13	95 32 19 16	110 36 22 19	ns
C _{in}	Maximum Input Capacitance	·	10	10	10	pF

		Typical @ 25°C, V _{CC} = 5.0 V, V _{EE} = 0 V	
C_{PD}	Power Dissipation Capacitance (Per Buffer)*	20	pF

^{*}Used to determine the no-load dynamic power consumption: $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$.

DC CHARACTERISTICS (MC74HCT32A)

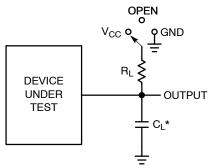
			Vcc	Guara	nteed Lin	nit	
Symbol	Parameter	Condition	v	−55 to 25°C	≤ 85 °C	≤125°C	Unit
V _{IH}	Minimum High-Level Input Voltage	$V_{out} = 0.1V$ or $V_{CC} - 0.1V$ $ I_{out} \le 20\mu A$	4.5 to 5.5	2.0	2.0	2.0	V
V _{IL}	Maximum Low-Level Input Voltage	$V_{out} = 0.1V$ or $V_{CC} - 0.1V$ $ I_{out} \le 20\mu A$	4.5 to 5.5	0.8	0.8	0.8	V
V _{OH}	Minimum High-Level Output Voltage	$\begin{aligned} V_{in} &= V_{IH} \text{ or } V_{IL} \\ I_{out} &\leq 20 \mu A \end{aligned}$	4.5 5.5	4.4 5.4	4.4 5.4	4.4 5.4	V
		$V_{in} = V_{IH} \text{ or } V_{IL} \qquad I_{out} \le 4.0 \text{mA}$	4.5	3.98	3.84	3.70	
V _{OL}	Maximum Low-Level Output Voltage	$ \begin{aligned} V_{in} &= V_{IH} \text{ or } V_{IL} \\ & I_{out} \leq 20 \mu A \end{aligned} $	4.5 5.5	0.1 0.1	0.1 0.1	0.1 0.1	V
		$V_{in} = V_{IH} \text{ or } V_{IL} \qquad I_{out} \le 4.0 \text{mA}$	4.5	0.26	0.33	0.40	
l _{in}	Maximum Input Leakage Current	V _{in} = V _{CC} or GND	5.5	±0.1	±1.0	±1.0	μΑ
I _{CC}	Maximum Quiescent Supply Current (per Package)	$V_{in} = V_{CC}$ or GND $I_{out} = 0\mu A$	5.5	1.0	10	40	μΑ

AC CHARACTERISTICS (MC74HCT32A)

			Gu			
Symbol	Parameter	V _{CC}	-55 to 25°C	≤ 85 °C	≤125°C	Unit
t _{PLH} , t _{PHL}	Maximum Propagation Delay, (A or B) to Y (Figures 3 and 4)	5.0	15	19	22	ns
t _{TLH} , t _{THL}	Maximum Output Transition Time, Any Output (Figures 3 and 4)	5.0	15	19	22	ns
C _{in}	Maximum Input Capacitance		10	10	10	pF

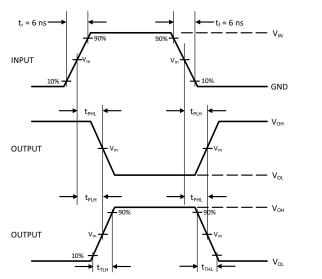
		Typical @ 25°C, V _{CC} = 5.0 V, V _{EE} = 0 V	
C_{PD}	Power Dissipation Capacitance (Per Buffer)*	20	pF

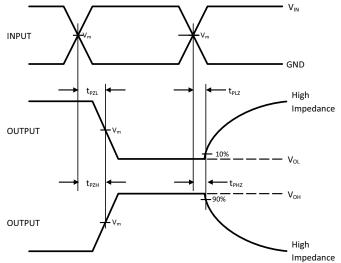
^{*}Used to determine the no-load dynamic power consumption: $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$.



Test	Switch Position	C _L	R_{L}
t _{PLH} / t _{PHL}	Open	50 pF	1 kΩ
t _{PLZ} / t _{PZL}	V _{CC}		
t _{PHZ} / t _{PZH}	GND		

Figure 3. Test Circuit





Device	V _{IN} , V	V _m , V
MC74HC32A	V_{CC}	50% x V _{CC}
MC74HCT32A	3 V	1.3 V

Figure 4. Switching Waveforms

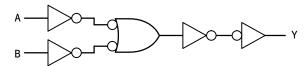


Figure 5. Expanded Logic Diagram (1/4 of the Device)

 $^{^{\}star}C_{L}$ Includes probe and jig capacitance

ORDERING INFORMATION

Device	Package	Marking	Shipping [†]
MC74HC32ADG	SOIC-14	HC32A	55 Units / Rail
MC74HC32ADG-Q*	SOIC-14	HC32A	55 Units / Rail
MC74HC32ADR2G	SOIC-14	HC32A	2500 / Tape & Reel
MC74HC32ADR2G-Q*	SOIC-14	HC32A	2500 / Tape & Reel
MC74HC32ADTR2G	TSSOP-14	HC 32A	2500 / Tape & Reel
MC74HC32ADTR2G-Q*	TSSOP-14	HC 32A	2500 / Tape & Reel
MC74HCT32ADR2G	SOIC-14	HCT32A	2500 / Tape & Reel
MC74HCT32ADTR2G	TSSOP-14	HCT 32A	2500 / Tape & Reel
MC74HCT32ADTR2G-Q*	TSSOP-14	HCT 32A	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.

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

Capable

MECHANICAL CASE OUTLINE

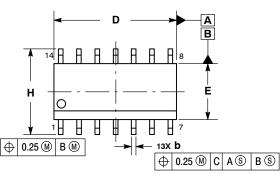
PACKAGE DIMENSIONS

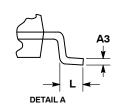


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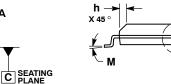
SOIC-14 NB CASE 751A-03 ISSUE L

DATE 03 FEB 2016





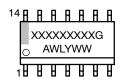




- NOTES:
 1. DIMENSIONING AND TOLERANCING PER
 - ASME Y14.5M, 1994.
 CONTROLLING DIMENSION: MILLIMETERS.
- DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT
- MAXIMUM MATERIAL CONDITION.
 DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
- 5. MAXIMUM 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
œ	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
М	0 °	7°	0 °	7 °

GENERIC MARKING DIAGRAM*

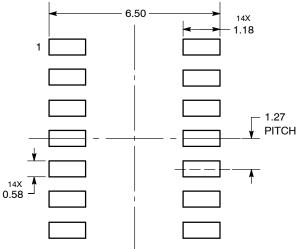


XXXXX = Specific Device Code Α = Assembly Location

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



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

DIMENSIONS: MILLIMETERS

STYLES ON PAGE 2

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SOIC-14 CASE 751A-03 ISSUE L

DATE 03 FEB 2016

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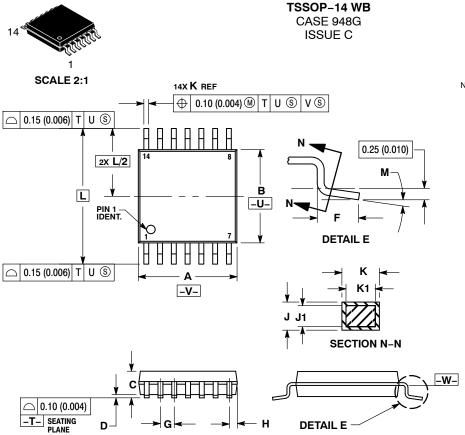
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MECHANICAL CASE OUTLINE

PACKAGE DIMENSIONS

DATE 17 FEB 2016



- NOTES.

 1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.

 2. CONTROLLING DIMENSION: MILLIMETER.

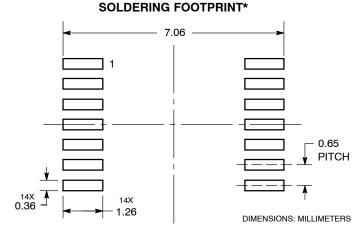
 3. DIMENSION A DOES NOT INCLUDE MOLD
- FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
 DIMENSION B DOES NOT INCLUDE
- INTERLEAD FLASH OR PROTRUSION.
 INTERLEAD FLASH OR PROTRUSION SHALL
- INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.

 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 DEFERENCE ONLY
- REFERENCE ONLY.
 DIMENSION A AND B ARE TO BE
- DETERMINED AT DATUM PLANE -W-

	MILLIMETERS		INCHES	
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
М	o°	8 °	0 °	8 °

RECOMMENDED



*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*



= Assembly Location

= 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.

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