### **ON Semiconductor**

#### Is Now



To learn more about onsemi<sup>™</sup>, please visit our website at www.onsemi.com

onsemi and Onsemi. and other names, marks, and brands are registered and/or common law trademarks of Semiconductor Components Industries, LLC dba "onsemi" or its affiliates and/or subsidiaries in the United States and/or other countries. onsemi owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of onsemi product/patent coverage may be accessed at www.onsemi.com/site/pdf/Patent-Marking.pdf. onsemi reserves the right to make changes at any time to any products or information herein is provided "as-is" and onsemi makes no warranty, representation or guarantee regarding the accuracy of the information, product features, availability, functionality, or suitability of its products for any particular purpose, nor does onsemi assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using onsemi products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by onsemi. "Typical" parameters which may be provided in onsemi data sheets and/ or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. onsemi does not convey any license under any of its intellectual property rights nor the rights of others. onsemi products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use onsemi products for any such unintended or unauthorized application,

### **Low-Voltage CMOS Hex Buffer with Open Drain Outputs**

### With 5 V-Tolerant Inputs

The MC74LCX07 is a high performance hex buffer operating from a 2.3 to 3.6 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers. These LCX devices have open drain outputs which provide the ability to set output levels, or do active-HIGH AND or active-LOW OR functions. A VI specification of 5.5 V allows MC74LCX07 inputs to be safely driven from 5.0 V devices.

#### **Features**

- Designed for 2.3 to 3.6 V V<sub>CC</sub> Operation
- 5.0 V Tolerant Inputs/Outputs
- LVTTL Compatible
- LVCMOS Compatible
- 24 mA Output Sink Capability
- Near Zero Static Supply Current (10 µA) Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500 mA
- Wired-OR, Wired-AND
- Output Level Can Be Set Externally Without Affecting Speed of Device
- ESD Performance: Human Body Model >1500 V; Machine Model >200 V
- These Devices are Pb-Free, Halogen Free/BFR Free and are RoHS Compliant

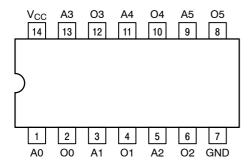


Figure 1. Pinout: 14-Lead (Top View)



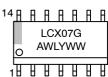
#### ON Semiconductor®

http://onsemi.com

#### **MARKING DIAGRAMS**



SOIC-14 **D SUFFIX CASE 751A** 





TSSOP-14 **DT SUFFIX CASE 948G** 



= Assembly Location

L. WL = Wafer Lot Y, YY = Year W. WW = Work Week = Pb-Free Package = 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 2 of this data sheet.

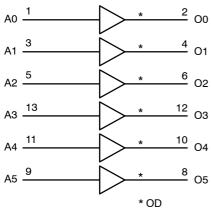


Figure 2. Logic Diagram

#### **PIN NAMES**

Pins	Function
An On	Data Inputs Outputs

#### **TRUTH TABLE**

An	On
L	L
H	Z

#### **MAXIMUM RATINGS**

Symbol	Parameter	Value	Condition	Unit
V <sub>CC</sub>	DC Supply Voltage	-0.5 to +7.0		V
VI	DC Input Voltage	$-0.5 \le V_{I} \le +7.0$		V
Vo	DC Output Voltage	$-0.5 \le V_{O} \le +7.0$	Output in HIGH or LOW State (Note 1)	V
I <sub>IK</sub>	DC Input Diode Current	-50	V <sub>I</sub> < GND	mA
lok	DC Output Diode Current	-50	V <sub>O</sub> < GND	mA
		+50	V <sub>O</sub> > V <sub>CC</sub>	mA
Io	DC Output/Sink Current	+50		mA
I <sub>CC</sub>	DC Supply Current Per Supply Pin	± 100		mA
I <sub>GND</sub>	DC Ground Current Per Ground Pin	± 100		mA
T <sub>STG</sub>	Storage Temperature Range	-65 to +150		°C
MSL	Moisture Sensitivity		Level 1	

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.

#### **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
MC74LCX07DG	SOIC-14 (Pb-Free)	55 Units / Rail
MC74LCX07DR2G	SOIC-14 (Pb-Free)	2500 Tape & Reel
MC74LCX07DTG	TSSOP-14 (Pb-Free)	96 Units / Rail
MC74LCX07DTR2G	TSSOP-14 (Pb-Free)	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.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Para	ameter	Min	Тур	Max	Unit
V <sub>CC</sub>	Supply Voltage	Operating Data Retention Only	2.0 1.5	2.3 to 3.3	5.5 5.5	V
VI	Input Voltage		0		5.5	V
Vo	Output Voltage	(HIGH or LOW State)	0		5.5	V
I <sub>OH</sub>	HIGH Level Output Current	V <sub>CC</sub> = 3.0 V-3.6 V V <sub>CC</sub> = 2.7 V-3.0 V V <sub>CC</sub> = 2.3 V-2.7 V			-24 -12 -8	mA
l <sub>OL</sub>	LOW Level Output Current	$V_{CC} = 3.0 \text{ V} - 3.6 \text{ V}$ $V_{CC} = 2.7 \text{ V} - 3.0 \text{ V}$ $V_{CC} = 2.3 \text{ V} - 2.7 \text{ V}$			+24 +12 +8	mA
T <sub>A</sub>	Operating Free-Air Temperature		-40		+85	°C
Δt/ΔV	Input Transition Rise or Fall Rate, V	N from 0.8 V to 2.0 V, V <sub>CC</sub> = 3.0 V	0		10	ns/V

#### DC ELECTRICAL CHARACTERISTICS

			T <sub>A</sub> = -40°0	C to +85°C	
Symbol	Characteristic	Condition	Min	Max	Unit
$V_{IH}$	HIGH Level Input Voltage (Note 2)	2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V	1.7		V
		2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V	2.0		
		4.5 V ≤ V <sub>CC</sub> ≤ 5.25 V	3.125		
V <sub>IL</sub>	LOW Level Input Voltage (Note 2)	2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V		0.7	V
		2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V		0.8	1
		4.5 V ≤ V <sub>CC</sub> ≤ 5.25 V		0.8	1
V <sub>OL</sub>	LOW Level Output Voltage	$2.3 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; \text{I}_{OL} = 100 \mu\text{A}$		0.2	V
		V <sub>CC</sub> = 2.3 V; I <sub>OL</sub> = 8 mA		0.3	1
		V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 12 mA		0.4	1
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 16 mA		0.4	1
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 24 mA		0.55	1
l <sub>OZ</sub>	3-State Output Current	$V_{CC} = 3.6 \text{ V}, V_{IN} = V_{IH} \text{ or } V_{IL}, V_{OUT} = 0 \text{ to } 5.5 \text{ V}$		±5	μΑ
I <sub>OFF</sub>	Power Off Leakage Current	V <sub>CC</sub> = 0, V <sub>IN</sub> = 5.5 V or V <sub>OUT</sub> = 5.5 V		10	μΑ
I <sub>IN</sub>	Input Leakage Current	V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND		±5	μΑ
I <sub>CC</sub>	Quiescent Supply Current	V <sub>CC</sub> = 3.6 V, V <sub>IN</sub> = 5.5 V or GND		10	μΑ
Δl <sub>CC</sub>	Increase in I <sub>CC</sub> per Input	$2.3~V \le V_{CC} \le 3.6~V$ $4.5~V \le V_{CC} \le 5.5~V$ $V_{CC} = 5.25~V, one input at 3.125~V, other inputs at V_{CC} or GND$		500 1.0 10	μA mA mA

<sup>2.</sup> These values of V<sub>I</sub> are used to test DC electrical characteristics only.

#### **AC ELECTRICAL CHARACTERISTICS**

			Limits					
			T <sub>A</sub> = -40°C to +85°C					
		V <sub>CC</sub> = 3.3	$V_{CC} = 3.3 \text{ V} \pm 0.3 \text{ V}$ $V_{CC} = 2.7 \text{ V}$ $V_{CC} = 2.5 \text{ V} \pm 0.2 \text{ V}$					
		C <sub>L</sub> = 50 pF		C <sub>L</sub> = 50 pF		C <sub>L</sub> = 30 pF		
Symbol	Parameter	Min	Max	Min	Max	Min	Max	Unit
t <sub>PLZ</sub>	Propagation Delay	0.5	3.0	8.0	3.7	0.8	3.8	ns
t <sub>PZL</sub>	Input to Output	0.5	3.0	0.8	3.7	8.0	3.8	ns

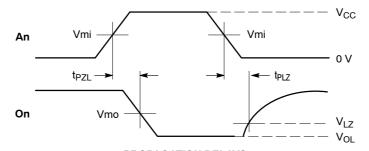
#### **DYNAMIC SWITCHING CHARACTERISTICS**

			T,	<sub>A</sub> = +25°	С	
Symbol	Characteristic	Condition	Min	Тур	Max	Unit
V <sub>OLP</sub>	Dynamic LOW Peak Voltage (Note 3)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$		0.9		V
		$V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		0.7		
V <sub>OLV</sub>	Dynamic LOW Valley Voltage (Note 3)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$		-0.8		V
		$V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		-0.6		

<sup>3.</sup> Number of outputs defined as "n". Measured with "n-1" outputs switching from HIGH-to-LOW or LOW-to-HIGH. The remaining output is measured in the LOW state.

#### **CAPACITIVE CHARACTERISTICS**

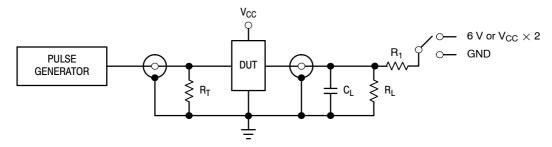
Symbol	Parameter	Condition	Typical	Unit
C <sub>IN</sub>	Input Capacitance	$V_{CC}$ = 3.3 V, $V_I$ = 0 V or $V_{CC}$	7	pF
C <sub>OUT</sub>	Output Capacitance	$V_{CC} = 3.3 \text{ V}, V_I = 0 \text{ V or } V_{CC}$	8	pF
C <sub>PD</sub>	Power Dissipation Capacitance	10 MHz, $V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	25	pF



 $\label{eq:propagation delays} \begin{aligned} & \textbf{PROPAGATION DELAYS} \\ & t_R = t_F = 2.5 \text{ ns, } 10\% \text{ to } 90\%; f = 1 \text{MHz; } t_W = 500 \text{ ns} \end{aligned}$ 

	V <sub>CC</sub>				
Symbol	3.3 V ± 0.3 V	2.7 V	2.5 V ± 0.2 V		
Vmi	1.5 V	1.5 V	V <sub>CC</sub> /2		
Vmo	1.5 V	1.5 V	V <sub>CC</sub> /2		
V <sub>LZ</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 015 V		

Figure 3. AC Waveforms



TEST	SWITCH
t <sub>PZL</sub> , t <sub>PLZ</sub>	6 V
Open Collector/Drain t <sub>PLH</sub> and t <sub>PHL</sub>	6 V
t <sub>PZH</sub> , t <sub>PHZ</sub>	GND

 $C_L$  = 50 pF at  $V_{CC}$  = 3.3  $\pm$  0.3 V or equivalent (includes jig and probe capacitance)

 $C_L$  = 30 pF at  $V_{CC}$  = 2.5  $\pm$  0.2 V or equivalent (includes jig and probe capacitance)

 $R_L = R_1 = 500 \Omega$  or equivalent

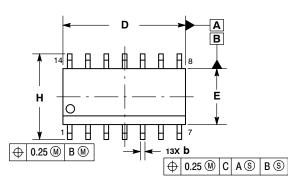
 $R_T = Z_{OUT}$  of pulse generator (typically 50  $\Omega$ )

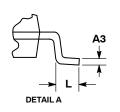
Figure 4. Test Circuit

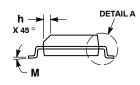


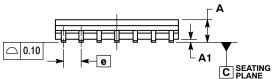
SOIC-14 NB CASE 751A-03 ISSUE L

**DATE 03 FEB 2016** 









## **GENERIC**

INCHES

MIN MAX

0.050 BSC

0.25 0.004 0.010

0.25 0.008 0.010

0.50 0.010 0.019

1.25 0.016 0.049

0.49 0.014

8.75 0.337 3.80 4.00 0.150 0.157

0.068

0.019

NOTES:
1. DIMENSIONING AND TOLERANCING PER

5. MAXIMUM MOLD PROTRUSION 0.15 PER

MILLIMETERS

MIN MAX

1.27 BSC

0.19

8.55

0.25

0.40

SIDE

Α

A1 0.10

АЗ

b 0.35

D E

e H h

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.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.



XXXXX = Specific Device Code Α = Assembly Location

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

# **SOLDERING FOOTPRINT\*** - 6.50 -14X 1 18 1.27 **PITCH** 14X 0.58

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

DIMENSIONS: MILLIMETERS

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

DOCUMENT NUMBER:	98ASB42565B	Electronic versions are uncontrolled except when accessed directly from the Document Reposit Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SOIC-14 NB		PAGE 1 OF 2	

ON Semiconductor and (III) are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the

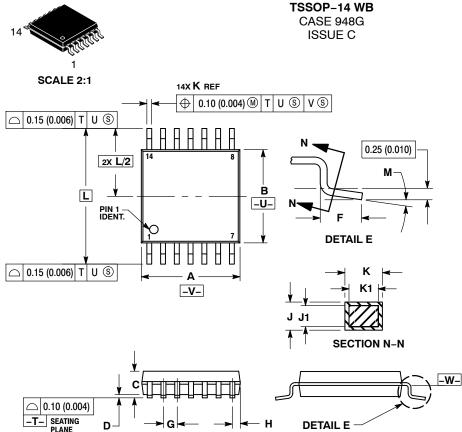
#### SOIC-14 CASE 751A-03 ISSUE L

#### 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 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

DOCUMENT NUMBER:	98ASB42565B	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	SOIC-14 NB		PAGE 2 OF 2	

ON Semiconductor and III are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the rights of others.



**DATE 17 FEB 2016** 

- NOTES.

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

  2. CONTROLLING DIMENSION: MILLIMETER.

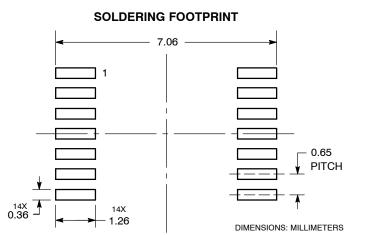
  3. DIMENSION A DOES NOT INCLUDE MOLD
- FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
  DIMENSION B DOES NOT INCLUDE
- INTERLEAD FLASH OR PROTRUSION.
  INTERLEAD FLASH OR PROTRUSION SHALL
- INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010)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

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





= Assembly Location

= Wafer Lot = Year

W = Work Week

= 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.

DOCUMENT NUMBER:	98ASH70246A	Electronic versions are uncontrolled except when accessed directly from the Document Repository. Printed versions are uncontrolled except when stamped "CONTROLLED COPY" in red.		
DESCRIPTION:	TSSOP-14 WB		PAGE 1 OF 1	

ON Semiconductor and unare trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. ON Semiconductor does not convey any license under its patent rights nor the

ON Semiconductor and the are trademarks of Semiconductor Components Industries, LLC dba ON Semiconductor or its subsidiaries in the United States and/or other countries. ON Semiconductor owns the rights to a number of patents, trademarks, copyrights, trade secrets, and other intellectual property. A listing of ON Semiconductor's product/patent coverage may be accessed at <a href="www.onsemi.com/site/pdf/Patent-Marking.pdf">www.onsemi.com/site/pdf/Patent-Marking.pdf</a>. ON Semiconductor reserves the right to make changes without further notice to any products herein. ON Semiconductor and see no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does ON Semiconductor assume any liability arising out of the application or use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. Buyer is responsible for its products and applications using ON Semiconductor products, including compliance with all laws, regulations and safety requirements or standards, regardless of any support or applications information provided by ON Semiconductor. "Typical" parameters which may be provided in ON Semiconductor data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. ON Semiconductor does not convey any license under its patent rights nor the rights of others. ON Semiconductor products are not designed, intended, or authorized for use as a critical component in life support systems or any FDA Class 3 medical devices or medical devices with a same or similar classification in a foreign jurisdiction or any devices intended for implantation in the human body. Should Buyer purchase or use ON Semiconductor products for any such unintended or unauthorized application, Buyer shall indemnify and

#### PUBLICATION ORDERING INFORMATION

LITERATURE FULFILLMENT:
Email Requests to: orderlit@onsemi.com

ON Semiconductor Website: www.onsemi.com

TECHNICAL SUPPORT
North American Technical Support:
Voice Mail: 1 800-282-9855 Toll Free USA/Canada

Phone: 011 421 33 790 2910

Europe, Middle East and Africa Technical Support:

Phone: 00421 33 790 2910

For additional information, please contact your local Sales Representative

 $\Diamond$