# Hex 3-State Noninverting Buffer with Separate 2-Bit and 4-Bit Sections

# High-Performance Silicon-Gate CMOS

The MC74HC367A is identical in pinout to the LS367. The device inputs are compatible with standard CMOS outputs; with pullup resistors, they are compatible with LSTTL outputs.

This device is arranged into 2-bit and 4-bit sections, each having its own active-low Output Enable. When either of the enables is high, the affected buffer outputs are placed into high-impedance states. The HC367A has noninverting outputs.

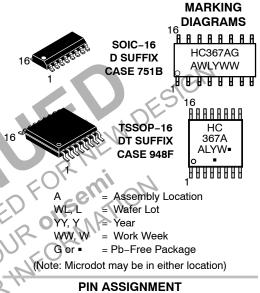
#### Features

- Output Drive Capability: 15 LSTTL Loads
- Outputs Directly Interface to CMOS, NMOS, and TTL
- Operating Voltage Range: 2 to 6 V
- Low Input Current: 1 µA
- High Noise Immunity Characteristic of CMOS Devices
- These are Pb–Free Devices



# **ON Semiconductor®**

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	1•	16	v <sub>cc</sub>
A0 [	2	15	OUTPUT ENABLE 2
Y0 [	3	14	] A5
A1 [	4	13	] Y5
Y1 [	5	12	] A4
A2 [	6	11	] Y4
Y2 [	7	10	] A3
GND [	8	9	] Y3
-			

### FUNCTION TABLE

Inpu	Output	
Enable 1, Enable 2	А	Y
L	L	L
L	н	н
Н	X	Z

X = don't care

Z = high impedance

#### **ORDERING INFORMATION**

See detailed ordering and shipping information in the package dimensions section on page 5 of this data sheet.

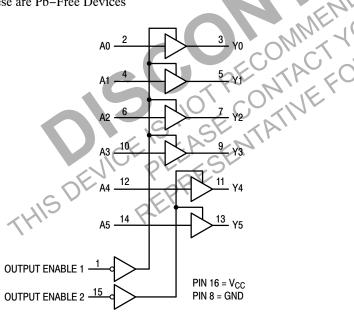


Figure 1. Logic Diagram

# **MAXIMUM RATINGS**

Symbol	Parameter	Value	Unit		
V <sub>CC</sub>	DC Supply Voltage (Referenced	DC Supply Voltage (Referenced to GND)			
V <sub>in</sub>	DC Input Voltage (Referenced to	–0.5 to V <sub>CC</sub> + 0.5	V		
V <sub>out</sub>	DC Output Voltage (Referenced	–0.5 to V <sub>CC</sub> + 0.5	V		
l <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 GN	ID Pins	±50	mA	
PD	Power Dissipation in Still Air,	SOIC Package TSSOP Package	500 450	mW	
T <sub>stg</sub>	Storage Temperature		–65 to + 150	°C	

This device contains protection circuitry to guard against damage due to high static voltages or electric fields. However, precautions must be taken to avoid applications of any voltage higher than maximum rated voltages to this high-impedance circuit. For proper operation, Vin and Vout should be constrained to the range GND  $\leq$  (V<sub>in</sub> or V<sub>out</sub>)  $\leq$  V<sub>CC</sub>.

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.

## **RECOMMENDED OPERATING CONDITIONS**

Itage (Referenced to GND) age, Output Voltage (Referenced	2.0	6.0		· •
age, Output Voltage (Referenced		0.0	V	N DES
<b>3</b> · · · · <b>3</b> · · ·	to GND) 0	Vcc	V	
nperature, All Package Types	-55	+125	°¢ en	$10^{10}$
V <sub>C</sub>	C = 3.0 V 0 C = 4.5 V 0	600 500	RERNA	
S NOT RE	ONTACIÓN	FOR		
NO PLESE				
	V <sub>C</sub> V <sub>C</sub>	$V_{CC} = 3.0 V$ 0 $V_{CC} = 4.5 V$ 0 $V_{CC} = 6.0 V$ 0	$V_{CC} = 3.0 \vee 0 600$ $V_{CC} = 4.5 \vee 0 500$ $V_{CC} = 6.0 \vee 0 400$	$V_{CC} = 3.0 V$ 0 600 $V_{CC} = 4.5 V$ 0 500 $V_{CC} = 6.0 V$ 0 400 $V_{CC} = 6.0 V$ 0 400

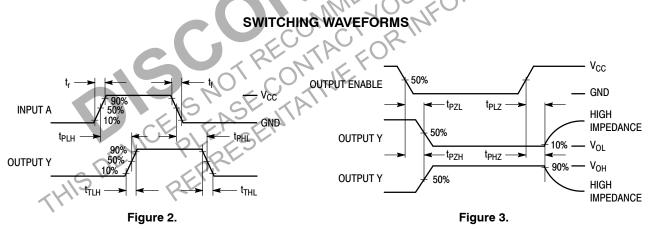
				Guaranteed Limit			
Symbol	Parameter	Test Conditions	V <sub>CC</sub> V	– 55 to 25°C	≤ <b>85°C</b>	≤ 125°C	Unit
V <sub>IH</sub>	Minimum High-Level Input Voltage	$\begin{aligned} V_{out} &= V_{CC} - 0.1 V \\  I_{out}  &\leq 20 \ \mu A \end{aligned}$	2.0 3.0 4.5 6.0	1.5 2.1 3.15 4.2	1.5 2.1 3.15 4.2	1.5 2.1 3.15 4.2	V
V <sub>IL</sub>	Maximum Low-Level Input Voltage	$V_{out} = 0.1 V$ $ I_{out}  \le 20 \mu A$	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	V
V <sub>OH</sub>	Minimum High-Level Output Voltage	$V_{in} = V_{IH}$ $ 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	V
		$ \begin{array}{ll} V_{in} = V_{IH} &  \left  I_{out} \right  \leq 3.6 \text{ mA} \\ \left  I_{out} \right  \leq 6.0 \text{ mA} \\ \left  I_{out} \right  \leq 7.8 \text{ mA} \end{array} $	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 <sub>OL</sub>	Maximum Low-Level Output Voltage	$V_{in} = V_{IL}$ $ 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	V
		$ \begin{array}{ll} V_{in} = V_{IL} &  \left  I_{out} \right  \leq 3.6 \text{ mA} \\ \left  I_{out} \right  \leq 6.0 \text{ mA} \\ \left  I_{out} \right  \leq 7.8 \text{ mA} \end{array} $	3.0 4.5 6.0	0.26 0.26 0.26	0.33 0.33 0.33	0.40 0.40 0.40	
I <sub>in</sub>	Maximum Input Leakage Current	V <sub>in</sub> = V <sub>CC</sub> or GND	6.0	±0.1	±1.0	± 1.0	μA
I <sub>OZ</sub>	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
ICC	Maximum Quiescent Supply Current (per Package)	V <sub>in</sub> = V <sub>CC</sub> or GND I <sub>out</sub> = 0 μA	6.0	4	40	160	μA
7	Maximum Quiescent Supply Current (per Package)	SENTATIVE FO.					

#### DC ELECTRICAL CHARACTERISTICS (Voltages Referenced to GND)

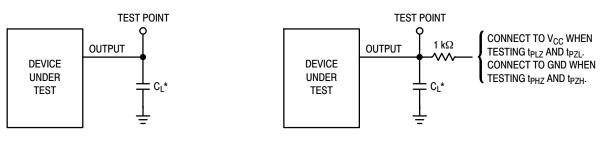
## **AC ELECTRICAL CHARACTERISTICS** ( $C_L = 50 \text{ pF}$ , Input $t_r = t_f = 6 \text{ ns}$ )

			Gu	aranteed Li	mit	
Symbol	Parameter	V <sub>CC</sub> V	– 55 to 25°C	≤ <b>85°C</b>	≤ 125°C	Unit
t <sub>PLH</sub> , t <sub>PHL</sub>	Maximum Propagation Delay, Input A to Output Y (Figures 2 and 4)	2.0 3.0 4.5 6.0	120 60 24 20	150 75 30 26	180 90 36 31	ns
t <sub>PLZ</sub> , t <sub>PHZ</sub>	Maximum Propagation Delay, Output Enable to Output Y (Figures 3 and 5)	2.0 3.0 4.5 6.0	175 90 35 30	220 110 44 37	265 135 53 45	ns
t <sub>PZL</sub> , t <sub>PZH</sub>	Maximum Propagation Delay, Output Enable to Output Y (Figures 3 and 5)	2.0 3.0 4.5 6.0	190 95 38 32	240 120 48 21	285 150 57 48	ns
t <sub>TLH</sub> , t <sub>THL</sub>	Maximum Output Transition Time, Any Output (Figures 2 and 4)	2.0 3.0 4.5 6.0	60 22 12 10	75 28 15 13	90 34 18 15	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

	A.				
			DEL	Typical @ 25°C, V <sub>CC</sub> = 5.0 V	
C <sub>PD</sub>	Power Dissipation Capacitance (Per Buffer)		ENVIR	60	pF



# **TEST CIRCUITS**

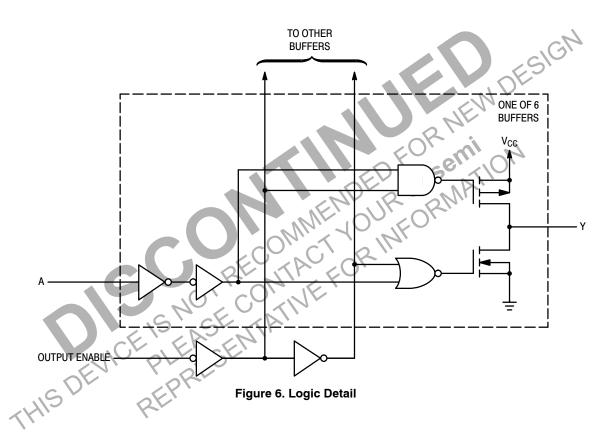


\*Includes all probe and jig capacitance



\*Includes all probe and jig capacitance





# **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
MC74HC367ADG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74HC367ADR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74HC367ADTG	TSSOP-16 (Pb-Free)	96 Units / Tube
MC74HC367ADTR2G	TSSOP-16 (Pb-Free)	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.



MILLIMETERS

NOM

1.55

0.18

1.37

0.42

0.22

9.90 BSC

MIN

1.35

0.10

1.25

0.35

0.19

DIM

А

Α1

A2

b

С

D

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

#### DATE 18 OCT 2024

MAX

1.75

0.25

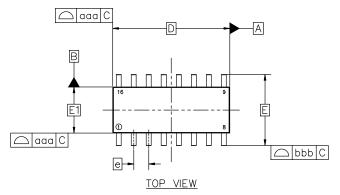
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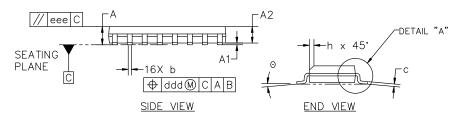
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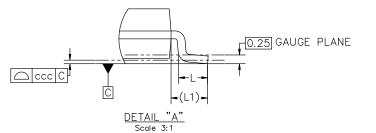
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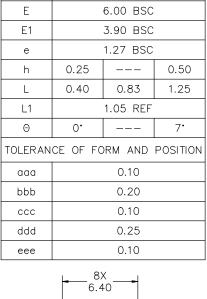
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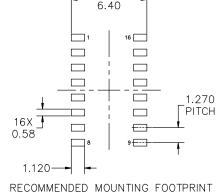
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE & DIMENSION AT MAXIMUM MATERIAL CONDITION.











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

#### DATE 18 OCT 2024

### GENERIC MARKING DIAGRAM\*

16	A	H	A.	- A	- A	A	A.	Æ
		XX)						
		XX	XX	XX	XX	XX)	XX	x
	0			NĽ				
1	H	H	Н	Н	Н	Н	Н	Ъ

XXXXX = Specific Device Code

A = Assembly Location

- WL = Wafer Lot
- Y = Year
- WW = Work Week
- G = Pb-Free Package

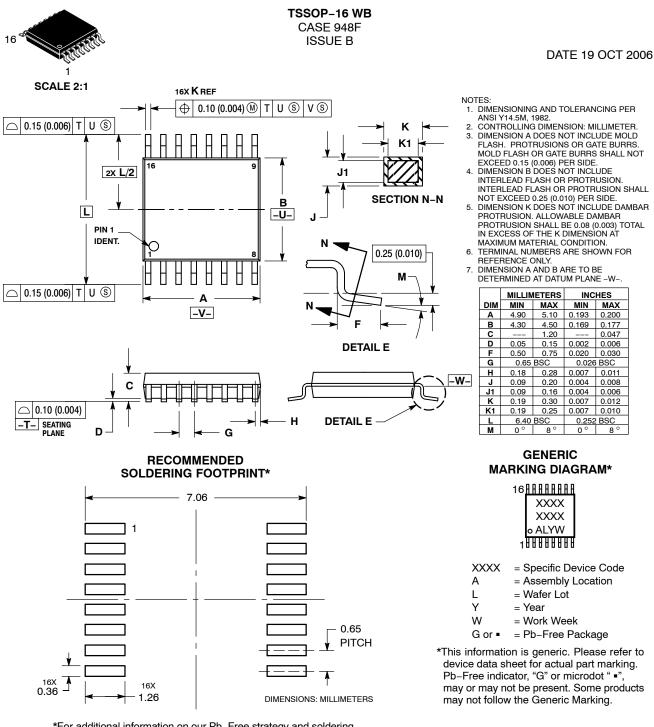
\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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

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\*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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