## Wideband Quad 2:1 Video Switch

The NCS6433 is a wide bandwidth, bidirectional, Quad 2:1, NMOS-based video switch suitable for dealing with video signals such as RGB, composite, S-Video, and component video (YPbPr).

The NCS6433 is controlled by a single switch–enabled ( $\overline{OE}$ ) input. When  $\overline{OE}$  is low the switch is enabled and the A port is connected to the B port. When  $\overline{OE}$  is high the switch is disabled and the high–impedance state exists between the A and B ports. The line select (SEL) input controls the data path of the multiplexer/demultiplexer.

The NCS6433 has a wide bandwidth, low crosstalk, low on resistance, and fast switching times making it suitable for high-frequency video applications in high definition LCD TV's.

## Features

- Very Wide Frequency Bandwidth: 570 MHz
- Low Switch Serial Resistance R<sub>DS(on)</sub>, 4 Ω Typical
- Power Supply Voltage, 5 V
- Less Than 0.25 ns Bidirectional Maximum Propagation Delay Through Switch
- Low Quiescent Current: 3 µA Maximum
- Very Low Crosstalk, -80 dB Typical at 10 MHz
- Control Inputs are TTL/CMOS Compatible
- Ideal for High Definition Video Applications
- ESD HBM Protection 8 kV
- Fast Switching Better Than 10 ns
- Capable of Driving a High Current at the Output (>100 mA)
- Available in SOIC-16 or TSSOP-16 Package
- This is a Pb–Free Device

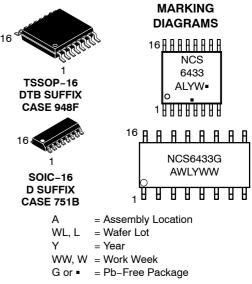
## **Typical Applications**

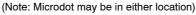
- Flat Panel Displays including LCDTV
- CRT Displays
- DVD Reader/Writer
- Set-Top Boxes



## **ON Semiconductor®**

http://onsemi.com





PIN CONNECTIONS					
SEL - 1B <sub>1</sub> - 1B <sub>2</sub> - 1A - 2B <sub>1</sub> - 2B <sub>2</sub> - 2A -	1 2 3 4 5 6 7	16 15 14 13 12 11	- V <sub>CC</sub> - OE - 4B <sub>1</sub> - 4B <sub>2</sub> - 4A - 3B <sub>1</sub>		
GND -	8	10 9	— 3В <sub>2</sub> — 3А		

### **TRUTH TABLE**

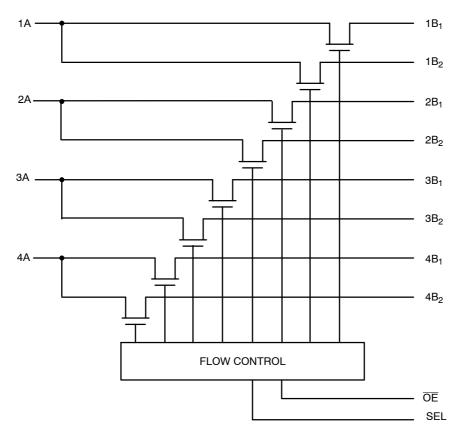
SEL	ŌĒ	Function
X	H	Open
L	L	A = B <sub>1</sub>
H	L	A = B <sub>2</sub>

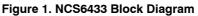
#### PIN NAMES

Pin	Description
ŌĒ	Bus Switch Enables
SEL	Select Inputs
А	Bus A
B <sub>1</sub> , B <sub>2</sub>	Bus B

### **ORDERING INFORMATION**

See detailed ordering and shipping information in the package dimensions section on page 2 of this data sheet.





## **ORDERING INFORMATION**

Device Order Number	Package	Shipping <sup>†</sup>
NCS6433DR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
NCS6433DTBR2G	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.

## ATTRIBUTES

Characteristics		Value			
ESD Protection Human Body Model, R = 1000 $\Omega$ , C = 100 pl (Note 1) Machine Model	F I/O Pins 2–7, 9–14 All Pins All Pins	8 kV 2 kV 100 V			
Flammability Rating	Oxygen Index: 28 to 34	UL 94 V–0 @ 0.125 in.			
Meets or exceeds JEDEC Spec EIA/JESD78 IC Latch-up Test					

1. Meets or exceeds JEDEC spec JESD22-A114-B.

2. For additional information, see Application Note AND8003/D

## MAXIMUM RATINGS

Parameter			Value	Unit
DC Supply Voltage		V <sub>CC</sub>	-0.5 to +5.5	V
DC Input Voltage		VI	-0.5 to +5.5	V
DC Output Voltage		Vo	-0.5 to +5.5	V
DC Input Diode Current		Ι <sub>ΙΚ</sub>	- 50	mA
DC Output Diode Current		I <sub>OK</sub>	- 50	mA
DC Output Sink Current		Ι <sub>Ο</sub>	128	mA
DC Supply Current per Supply Pin		I <sub>CC</sub>	±100	mA
DC Ground Current per Ground Pin		I <sub>GND</sub>	±100	mA
Storage Temperature Range		T <sub>STG</sub>	-65 to +150	°C
Lead Temperature, 1 mm from Case for 10 Seconds		ΤL	260	°C
Junction Temperature Under Bias (Note 3)		TJ	+150	°C
Thermal Resistance	SOIC-16 TSSOP-16	$\theta_{JA}$	125 170	°C/W

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.

3. Maximum electrical ratings are defined as those values beyond which damage to the device may occur at  $T_A = +25^{\circ}C$ .

## **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parar	Parameter		Мах	Unit
V <sub>CC</sub>	Supply Voltage	Operating, Data Retention Only	4.75	5.25	V
VI	Input Voltage	(Note 4)	0	5.25	V
Vo	Output Voltage	(HIGH or LOW State)	0	5.25	V
T <sub>A</sub>	Operating Free-Air Temperature		-40	+85	°C
$\Delta t/\Delta V$	Input Transition Rise or Fall Rate Switch I/O	Switch Control Input V <sub>CC</sub> = 5.0 V $\pm$ 0.5 V	0	DC 5	ns/V

4. Unused control inputs may not be left open. All control inputs must be tied to a high or low logic input voltage level.

(		A A		,	. ,		
Symbol	Parameter	Conditions	V <sub>CC</sub> (V)	Min	Тур*	Max	Unit
V <sub>IK</sub>	Clamp Diode Voltage	I <sub>IN</sub> = -18 mA	4.5	-1.2	-0.8		V
V <sub>IH</sub>	High-Level Input Voltage		4.0 to 5.5	2.0			V
V <sub>IL</sub>	Low-Level Input Voltage		4.0 to 5.5			0.8	V
ILI	Input Leakage Current	$0 \le V_{IN} \le 5.5 V$	5.5			±1.0	μΑ
I <sub>OZ</sub>	Off-State Leakage Current	$0 \le A, B \le V_{CC}$	5.5			±1.0	μΑ
R <sub>ON</sub>	Switch On Resistance (Note 5)	$V_{\text{IN}}$ = 1 V, $I_{\text{ON}}$ = 13 mA, $R_{\text{L}}$ = 75 $\Omega$	4.5		4.0	7.0	Ω
		$V_{\text{IN}}$ = 2 V, $I_{\text{ON}}$ = 26 mA, $R_{\text{L}}$ = 75 $\Omega$	4.5		7.0	10	]
I <sub>CC</sub>	Quiescent Supply Current	$V_{IN} = V_{CC}$ or GND, $I_{OUT} = 0$	5.5			3.0	μΑ
$\Delta I_{CC}$	Increase In I <sub>CC</sub> per Input	One input at 3.4 V, Other inputs at $V_{CC}$ or GND	5.5			2.5	mA

\*Typical values are at V<sub>CC</sub> = 5.0 V and T<sub>A</sub> = 25°C.
5. Measured by the voltage drop between A and B pins at the indicated current through the switch. On resistance is determined by the lower of the voltages on the two (A or B) pins.

## AC ELECTRICAL CHARACTERISTICS (T<sub>A</sub> = -40°C to +85°C, C<sub>L</sub> = 20 pF, RU = RD = 75 $\Omega$ unless otherwise specified) (Note 6)

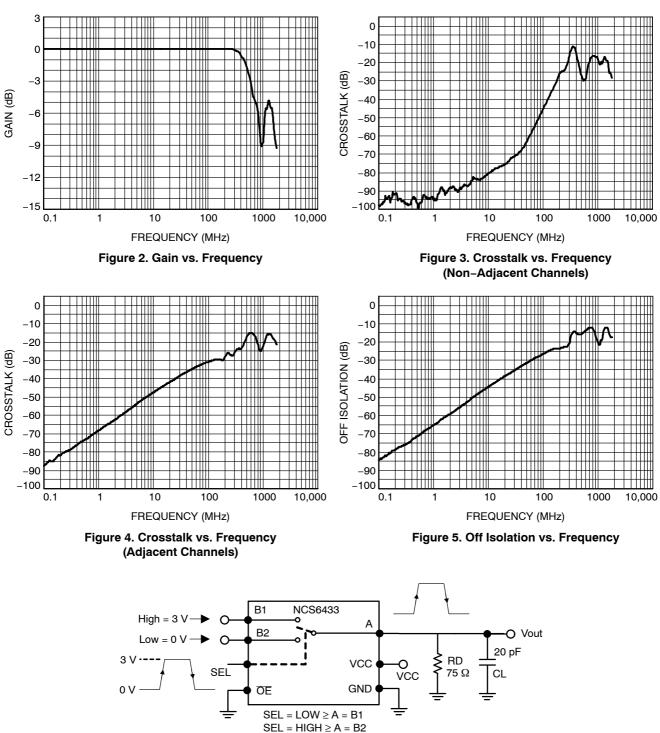
			V <sub>CC</sub> = 4.5–5.5 V			
Symbol	Parameter	Conditions	Min	Тур	Max	Unit
t <sub>ON</sub>	Turn On Time	$R_L$ = 75 Ω, $C_L$ = 20 pF, see Figure 7		2.8	5.0	ns
tOFF	Turn Off Time	$R_L$ = 75 Ω, $C_L$ = 20 pF, see Figure 7		1.4	5.0	ns
BW	-3 dB Bandwidth	$R_L = 150 \Omega$ , $T_A = 25^{\circ}C$			570	MHz
X <sub>talk</sub>	Crosstalk Adjacent Non-Adjacent	10 MHz, $C_L$ = 0 pF, $R_L$ = 150 $\Omega$		-47 -80		dB
Off <sub>ISO</sub>	Off Isolation	10 MHz, $C_L$ = 0 pF, $R_L$ = 150 $\Omega$		-48		dB

6. T\_A =  $+25^{\circ}$ C, parameters characterized but not tested.

## CAPACITANCES (Note 7)

Symbol	Parameter	Conditions	Min	Тур	Max	Unit
C <sub>IN</sub>	Control Pin Input Capacitance	V <sub>CC</sub> = 5.0 V		2.0		pF
C <sub>I/OA</sub>	A Port Input/Output Capacitance	$V_{CC} = \overline{OE} = 5.0 V$		5.0		pF
C <sub>I/OB</sub>	B Port Input/Output Capacitance	$V_{CC} = \overline{OE} = 5.0 V$		5.0		pF

7.  $T_A$  =  $+\,25^\circ C,\,f$  = 1 MHz, Capacitance is characterized but not tested.



## **TYPICAL CHARACTERISTICS**



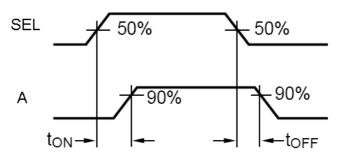


Figure 7. Turn-on and Turn-off Times

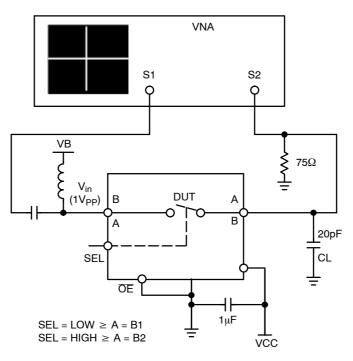
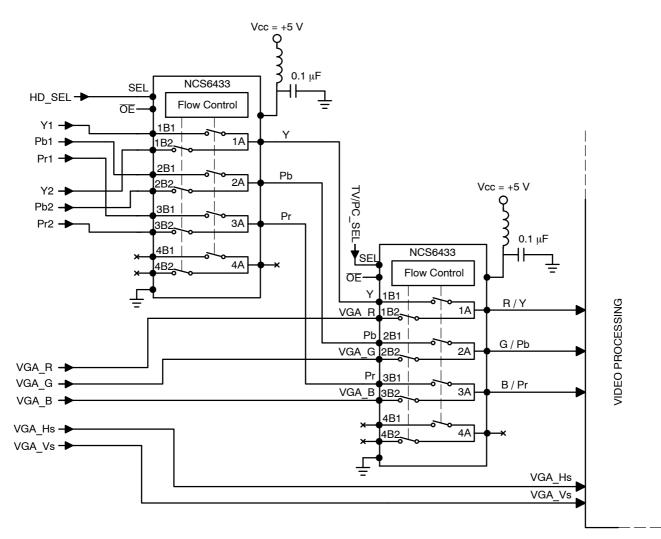


Figure 8. Gain, Crosstalk, Off-Isolation







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

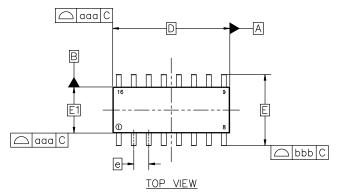
1.50

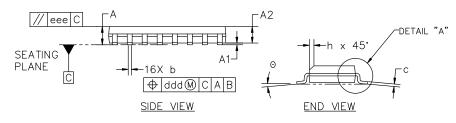
0.49

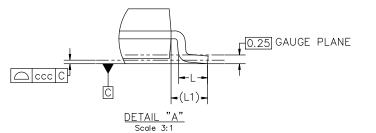
0.25

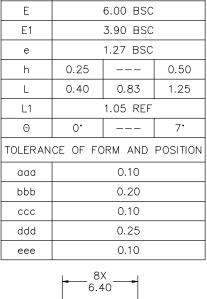
NOTES:

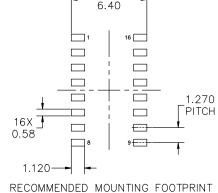
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm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











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

DOCUMENT NUMBER:	98ASB42566B 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-16 9.90X3.90X1.37 1	PAGE 1 OF 2		

onsemi and ONSEMi are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the 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. onsemi does not convey any license under its patent rights of others.

#### 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

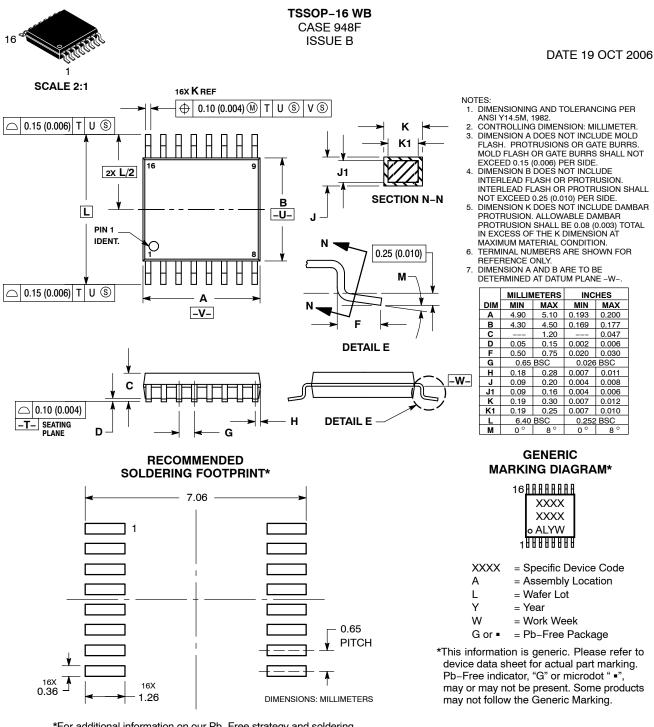
\*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

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.		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	h	
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. 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. 12.	CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE ANODE ANODE ANODE ANODE	PIN 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	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. 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. 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. 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	) ) ) ) )	

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

onsemi and ONSEMI are trademarks of Semiconductor Components Industries, LLC dba onsemi or its subsidiaries in the United States and/or other countries. onsemi reserves the right to make changes without further notice to any products herein. onsemi makes no warranty, representation or guarantee regarding the 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. onsemi does not convey any license under its patent rights nor the rights of others.

# onsemi



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

DOCUMENT NUMBER:	98ASH70247A	Electronic versions are uncontrolled except when accessed directly from Printed versions are uncontrolled except when stamped "CONTROLLED					
DESCRIPTION:	TSSOP-16		PAGE 1 OF 1				
onsemi and OOSEMU are trademarks of Semiconductor Components Industries LLC dha onsemi or its subsidiaries in the United States and/or other countries onsemi reserves							

onsemi and OI ISCI III are trademarks or Semiconductor Components industries, LLC data onsemi or its subsidiaries in the United States and/or other countries. Onsemi reserves the right to make changes without further notice to any products herein. **onsemi** makes no warranty, representation or guarantee regarding the 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. **onsemi** does not convey any license under its patent rights or the rights of others.

onsemi, 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's product/patent coverage may be accessed at <u>www.onsemi.com/site/pdf/Patent\_Marking.pdf</u>. onsemi reserves the right to make changes at any time to any products or information herein, without notice. The 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 indental 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. Buyer shall indemnify and hold onsemi and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs,

#### ADDITIONAL INFORMATION

TECHNICAL PUBLICATIONS:

Technical Library: www.onsemi.com/design/resources/technical-documentation onsemi Website: www.onsemi.com

ONLINE SUPPORT: <u>www.onsemi.com/support</u> For additional information, please contact your local Sales Representative at <u>www.onsemi.com/support/sales</u>