8-Bit Shift and Store **Register with LSTTL Compatible Inputs**

High–Performance Silicon–Gate CMOS

The MC74HCT4094A is a high speed CMOS 8-bit serial shift and storage register. This device consists of an 8-bit shift register and latch with 3-state output buffers. Data is shifted on positive clock (CP) transitions. The data in the shift register is transferred to the storage register when the Strobe (STR) input is high. The output buffers are enabled when the Output Enable (OE) input is set high. Two serial outputs (QS_1, QS_2) are available for cascading multiple devices.

The MC74HCT4094A can be used to interface TTL or CMOS outputs to high speed CMOS inputs.

Features

- Wide Operating Voltage Range: 4.5 to 5.5 V
- Low Power Dissipation: $I_{CC} = < 10 \,\mu A$
- THIS DEVICE REPRESENTATIVE REPRESENT • In Compliance with the Requirements Defined by JEDEC Standard No. 7A
- These are Pb-Free Devices

Typical Applications

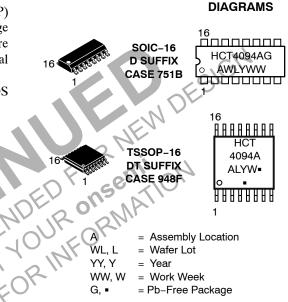
- Serial-to-Parallel Conversion
- Remote Control Storage Register



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MARKING



(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 9 of this data sheet.

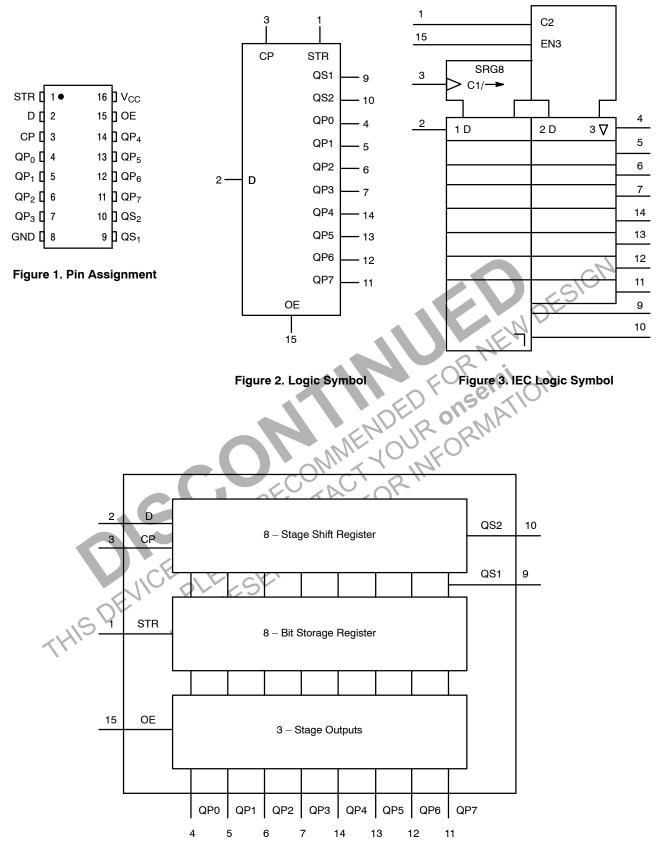
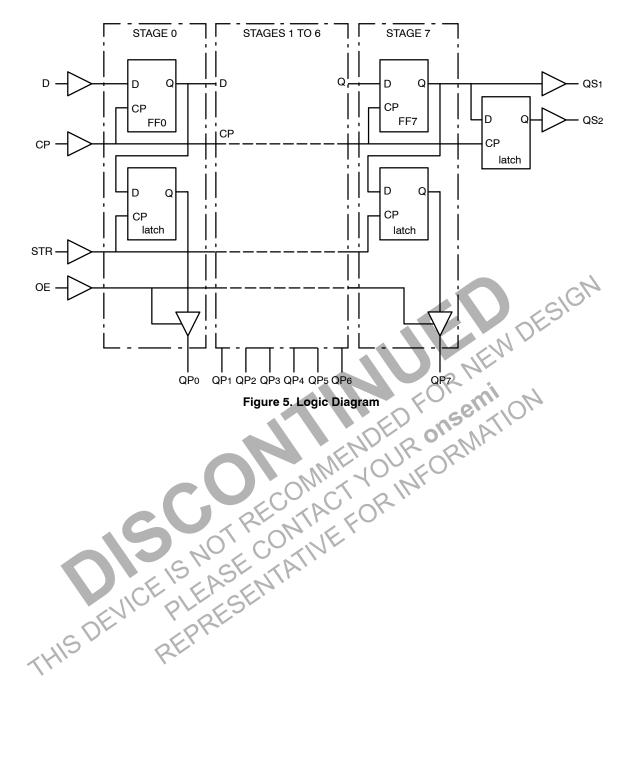


Figure 4. Functional Diagram



MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V _{CC}	DC Supply Voltage (Referenced to GND)	– 0.5 to + 7.0	V
V _{in}	DC Input Voltage (Referenced to GND)	-0.5 to V_{CC} + 0.5	V
V _{out}	DC Output Voltage (Referenced to GND)	-0.5 to V_{CC} + 0.5	V
l _{in}	DC Input Current, per Pin	± 20	mA
I _{out}	DC Output Current, per Pin	± 35	mA
I _{CC}	DC Supply Current, V_{CC} and GND Pins	± 75	mA
PD	Power Dissipation in Still Air, SOIC Package† TSSOP Package†	500 450	mW
T _{stg}	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_{in} or V_{out}) \leq V_{CC}. 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.

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.

RECOMMENDED OPERATING CONDITIONS

Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability. †Derating - SOIC Package: - 7 mW/°C from 65° to 125°C TSSOP Package: - 6.1 mW/°C from 65° to 125°C RECOMMENDED OPERATING CONDITIONS Symbol Parameter Min Max Unit V _{CC} DC Supply Voltage (Referenced to GND) 4.5 5.5 V	34
	3.
V _{CC} DC Supply Voltage (Referenced to GND) 4.5 5.5 V	
V _{in} , V _{out} DC Input Voltage, Output Voltage 0 V _{CC} V	
(Referenced to GND)	
T _A Operating Temperature, All Package Types -55 +125 CO	
t _r , t _f Input Rise and Fall Time (Figure 1) 0 500 ns	
t, t input Hise and Fall Time (Figure 1) 0 500 ns	

FUNCTIONAL TABLE

	INP	UTS		PARALLE	L OUTPUTS	SERIAL O	OUTPUTS
СР	OE	STR	D	QP0	QPn	QS1	QS2
Ŷ	L	Х	Х	Z	Z	Q'6	NC
\downarrow	L	Х	Х	Z	Z	NC	QP
\uparrow	н	L	Х	NC	NC	Q'6	NC
\uparrow	н	Н	L	L	QPn-1	Q'6	NC
\uparrow	н	Н	Н	Н	QPn-1	Q'6	NC
\downarrow	н	Н	Н	NC	NC	NC	QP
NC = no char \uparrow = LOW-to- \downarrow = HIGH-to-	e dance OFF-state nge HIGH CP transitio -LOW CP transitio	n n	je is transferred to	o the 8th register :	stage and QSn ou	tput at the positive	clock edg
CLOCK INPUT	- CP						
data input	D						
STROBE INPL	JT STI	: 			200N		
OUTPUT ENA	BLE INPUT OE			ME O	ht r		
INTERNAL Q'C	Fr		18571		-state		
	QP		KR				
OUTPUT		FER					
OUTPUT	DEV FFC	PLEA	SEN				
NTERNAL Q'e	S DEV FFe	PLEAS REPRE					
,	S DE QP			, , , , , , , , , , , , , , , , , , ,			

Figure 6. Timing Diagram

DC CHARACTERISTICS

				Guar	S		
Symbol	Parameter	Test Conditions	V _{CC} (V)	-55°C to 25°C	≤ 85°C	≤ 125°C	Unit
V _{IH}	Minimum High-Level Input	$V_{OUT} = 0.1 V \text{ or } V_{CC} - 0.1 V$	4.5	2.0	2.0	2.0	V
	Voltage	I _{OUT} ≤ 20 μΑ	5.5	2.0	2.0	2.0	1
V _{IL}	Maximum Low-Level Input	$V_{OUT} = 0.1 V \text{ or } V_{CC} - 0.1 V$	4.5	0.8	0.8	0.8	V
	Voltage	Ι _{ΟUT} ≤ 20 μΑ	5.5	0.8	0.8	0.8	1
V _{OH}	Minimum High-Level Output	V _{IN} = V _{IH} or V _{IL}	4.5	4.4	4.4	4.4	V
	Voltage	Ι _{ΟUT} ≤ 20 μΑ	5.5	5.4	5.4	5.4	1
		$V_{IN} = V_{IH} \text{ or } V_{IL}, I_{OUT} = 6 \text{ mA}$	4.5	4.25	4.2	4.1	1
V _{OL}	Maximum Low-Level Output	$V_{IN} = V_{IH} \text{ or } V_{IL}, I_{OUT} \le 20 \ \mu\text{A}$	4.5	0.1	0.1	0.1	V
	Voltage		5.5	0.1	0.1	0.1	1
		$V_{IN} = V_{IH} \text{ or } V_{IL}, I_{OUT} = 6 \text{ mA}$	4.5	0.25	0.3	0.4	
I _{IN}	Maximum Input Leakage Current	V _{IN} = V _{CC} or GND	5.5	±0.1	±1	S	μA
I _{OZ}	Maximum Tri-State Output Leakage Current	$V_{IN} = V_{CC}$ or GND $V_{OUT} = V_{CC}$ or GND	5.5	±0.5	<u>±5</u>	±10	μA
I _{CC}	Maximum Quiescent Supply Current	V _{IN} = V _{CC} or GND	5.5	4.0	40	80	μA
٨١٥٥		$V_{\rm c} = 2.4 V_{\rm c}$ Any One Input		<u> </u>	9		+

ΔI_{CC}	Additional Quiescent Supply Current	V_{in} = 2.4V, Any One Input V_{in} = V _{CC} or GND, Other Inputs	22	≥ -55°C	25 to 125°C	
	Current	$v_{in} = v_{CC}$ of GND, other inputs $I_{out} = 0\mu A$	5.5	02.9	2.4	mA

AC CHARACTERISTICS ((t _f = t _r = 6 ns, C _L = 50 pF)
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				Guar	ranteed Limit	s	
Symbol	Parameter	Test Conditions	V _{CC} (V)	-55°C to 25°C	≤ 85°C	≤ 125°C	Unit
t _{PHL} , t _{PLH}	Maximum Propagation Delay CP to QS ₁	Figure 7	4.5	30	38	45	ns
t _{PHL} , t _{PLH}	Maximum Propagation Delay CP to QS_2	Figure 7	4.5	27	34	41	ns
t _{PHL} , t _{PLH}	Maximum Propagation Delay CP to QP _n	Figure 7	4.5	39	49	59	ns
t _{PHL} , t _{PLH}	Maximum Propagation Delay STR to QP _n	Figure 8	4.5	36	45	54	ns
t _{PZH} , t _{PZL}	Maximum 3-State Output Enable Time OE to QP _n	Figure 9	4.5	35	44	53	ns
t _{PHZ} , t _{PLZ}	Maximum 3-State Output Enable Time OE to QP _n	Figure 9	4.5	25	31	38	ns
t _{THL} , t _{TLH}	Maximum Output Transition Time	Figure 7	4.5	18	22	25	ns
t _W	Minimum Clock Pulse Width High or Low	Figure 7	4.5	16	20	24	ns
t _W	Minimum Strobe Pulse Width High	Figure 8	4.5	16	20	24	ns
t _{SU}	Minimum Set–up Time D to CP	Figure 10	4.5	- 0 ¹⁰⁻	13	15	ns
t _{SU}	Minimum Set-up Time CP to STR	Figure 8	4.5	205	25	30	ns
t _h	Minimum Hold Time D to CP	Figure 10	4.5	S 32 M	3	3	ns
t _h	Minimum Hold Time CP to STR	Figure 8	4.5	Ar 0	0	0	ns
f _{MAX}	Minimum Clock Pulse Frequency	Figure 7	4.5	30	24	20	MHz
C _{in}	Maximum Input Capacitance	OMIE	_	10	10	10	pF
C _{out}	Maximum Output Capacitance	UTIN'	-	15	15	15	pF
C _{PD}	Power Dissipation Capacitance (Note 2)	<u>N</u> N	-	140	140	140	pF

2. C_{PD} is defined as the value of the IC's equivalent capacitance from which the operating current can be calculated from: I_{CC} (operating) $\approx C_{PD} \times V_{CC} \times f_{IN} \times N_{SW}$ where N_{SW} = total number of outputs switching and f_{IN} = switching frequency.

AC WAVEFORMS

 $(V_{M} = 1.3 V)$

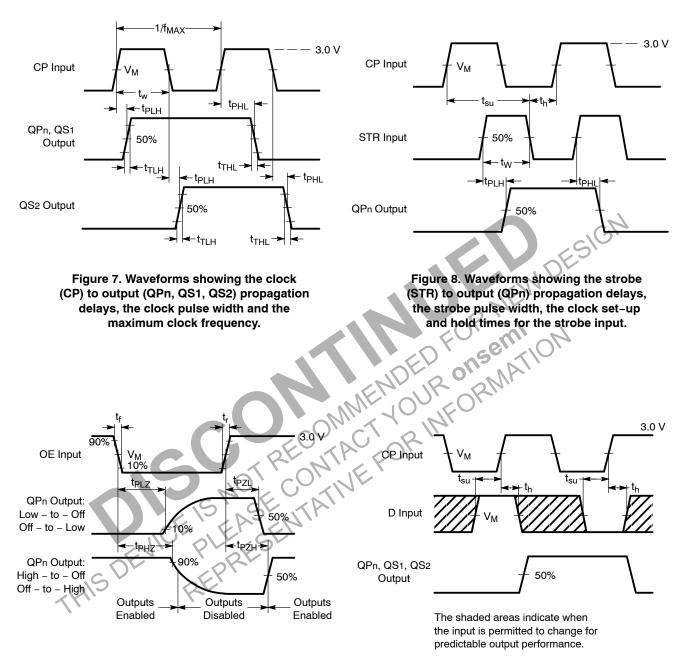
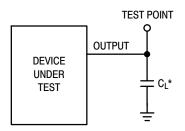
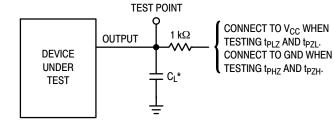


Figure 9. Waveforms showing the 3-state enable and disable times for input OE.

Figure 10. Waveforms showing the data set-up and hold times for the data input.

TEST CIRCUITS





*Includes all probe and jig capacitance

*Includes all probe and jig capacitance



ORDERING INFORMATION

Device	Package	Shipping
MC74HCT4094ADG	SOIC-16 (Pb-Free)	48 Units / Rail
MC74HCT4094ADR2G	SOIC-16 (Pb-Free)	2500 Tape & Reel
MC74HCT4094ADT	TSSOP-16*	96 Units / Rail
MC74HCT4094ADTR2G	TSSOP-16*	2500 Tape & Reel

MC74HCT4094ADTR2G
TSSOP-16*
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.
*This package is inherently Pb-Free.

*This package is inherently Pb-Free.
Image: Comparison of the comp



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

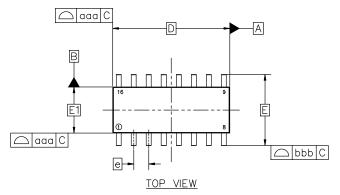
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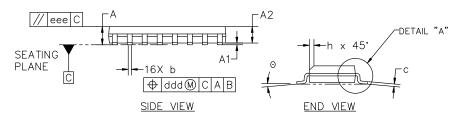
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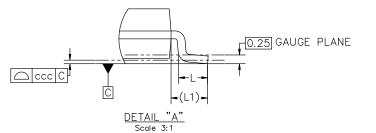
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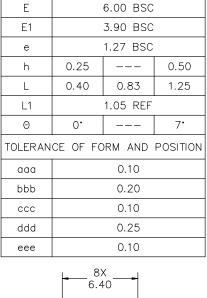
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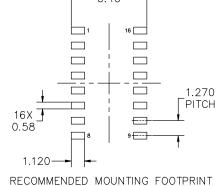
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm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











*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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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	Н	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

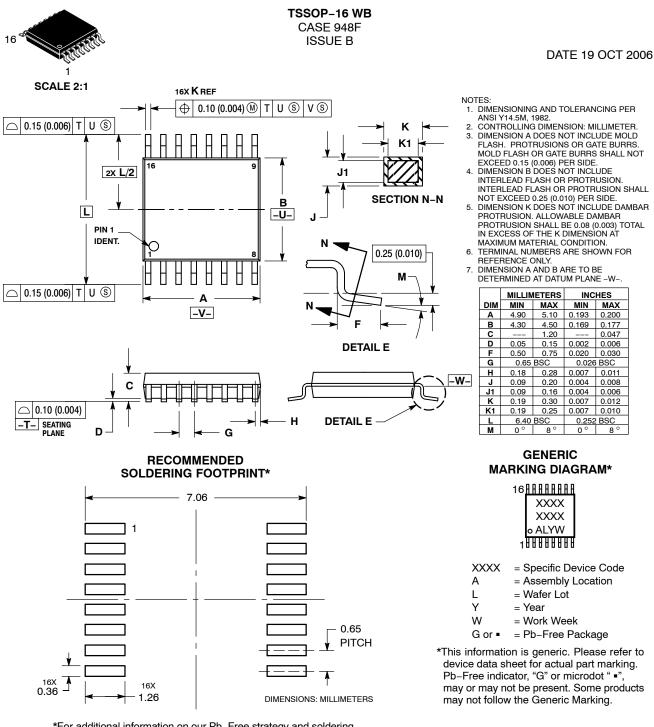
*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present. Some products may not follow the Generic Marking.

STYLE 1:		STYLE 2:		STYLE 3:	c	STYLE 4:	
PIN 1.	COLLECTOR	PIN 1.	CATHODE	PIN 1.	COLLECTOR, DYE #1	PIN 1.	COLLECTOR, DYE #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.	,
	EMITTER		CATHODE		COLLECTOR, #2		COLLECTOR, #3
5. 6.		5. 6.	NO CONNECTION	5. 6.	BASE. #2	5. 6.	COLLECTOR, #3
0. 7.		0. 7.		7.	- ,	7.	
8.		8.	CATHODE	8.		8.	,
	BASE	9.	CATHODE		COLLECTOR, #2	9.	,
10.	EMITTER	•.	ANODE		BASE, #3	10.	- ,
	NO CONNECTION	11.	NO CONNECTION		EMITTER, #3	11.	
	EMITTER	12.	CATHODE		COLLECTOR, #3	12.	
	BASE	13.	CATHODE	13.		13.	, .
14.		14.	NO CONNECTION		BASE, #4	14.	
15.	EMITTER	15.	ANODE	15.		15.	BASE, #1
16.		16.	CATHODE	16.		16.	EMITTER, #1
STYLE 5:		STYLE 6:		STYLE 7:			
STYLE 5: PIN 1.	DRAIN, DYE #1	STYLE 6: PIN 1.	CATHODE	STYLE 7: PIN 1.	SOURCE N-CH		
	DRAIN, DYE #1 DRAIN, #1		CATHODE CATHODE	••••	SOURCE N-CH COMMON DRAIN (OUTPUT)	1	
PIN 1.	,	PIN 1.		PIN 1.			
PIN 1. 2.	DRAIN, #1	PIN 1. 2.	CATHODE	PIN 1. 2.	COMMON DRAIN (OUTPUT 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 CATHODE	PIN 1. 2. 3. 4. 5.	COMMON DRAIN (OUTPUT COMMON DRAIN (OUTPUT GATE P-CH COMMON DRAIN (OUTPUT		
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PIN 1. 2. 3. 4. 5. 6. 7.	DRAIN, #1 DRAIN, #2 DRAIN, #2 DRAIN, #3 DRAIN, #3 DRAIN, #4 DRAIN, #4	PIN 1. 2. 3. 4. 5. 6. 7.	CATHODE 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		
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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. 10.	CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE 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		
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 GATE, #3	PIN 1. 2. 3. 4. 5. 6. 7. 8. 9. 9. 10.	CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE 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.	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. 10. 11.	CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE CATHODE 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 SOURCE P-CH COMMON DRAIN (OUTPUT COMMON DRAIN (OUTPUT		
PIN 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11.	DRAIN, #1 DRAIN, #2 DRAIN, #2 DRAIN, #3 DRAIN, #3 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.	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		
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