# <u>onsemi</u>,

## **12-Stage Binary Ripple** Counter

### MC74AC4040

The MC74AC4040 consists of 12 master-slave flip-flops. The output of each flip-flop feeds the next and the frequency at each output is half that of the preceding one. The state of the counter advances on the negative-going edge of the Clock input. Reset is asynchronous and active-high.

State changes of the Q outputs do not occur simultaneously because of internal ripple delays. Therefore, decoded output signals are subject to decoding spikes and may have to be gated with the Clock of the MC74AC4040 for some designs.

#### Features

- 140 MHz Typ. Clock
- Outputs Source/Sink 24 mA
- Operating Voltage Range: 2.0 to 6.0 V
- High Noise Immunity
- These are Pb-Free Devices

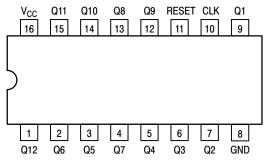


Figure 1. Pinout: 16–Lead Packages Conductors (Top View)

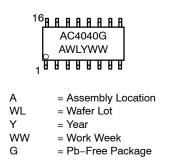
#### FUNCTION TABLE

Clock	Reset	Output State
	L	No Change
	L	Advance to next state
Х	н	All Outputs are low



SOIC-16 D SUFFIX CASE 751B

#### MARKING DIAGRAM



#### **ORDERING INFORMATION**

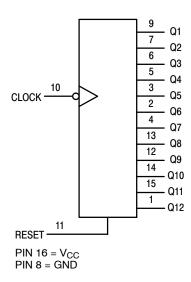
Device	Package	Shipping <sup>†</sup>
MC74AC4040DR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
	lote 1)	

	,	
MC74AC4040DG	SOIC-16	48 Units / Tube
	(Pb-Free)	

+For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, <u>BRD8011/D.</u>

 DISCONTINUED: This device is not recommended for new design. Please contact your onsemi representative for information. The most current information on this device may be available on <u>www.onsemi.com</u>.

#### MC74AC4040





#### MAXIMUM RATINGS

Symbol	Parameter	Value	Unit
V <sub>CC</sub>	DC Supply Voltage	-0.5 to +7.0	V
VI	DC Input Voltage	$-0.5 \le V_{CC} + 0.5$	V
Vo	DC Output Voltage (Note 2)	$-0.5 \le V_{CC} + 0.5$	V
I <sub>IK</sub>	DC Input Diode Current	±20	mA
I <sub>OK</sub>	DC Output Diode Current	±50	mA
I <sub>O</sub>	DC Output Sink/Source Current	±50	mA
I <sub>CC</sub>	DC Supply Current per Output Pin	±50	mA
I <sub>GND</sub>	DC Ground Current per Output Pin	±50	mA
T <sub>STG</sub>	Storage Temperature Range	-65 to +150	°C
TL	Lead temperature, 1 mm from Case for 10 Seconds	260	°C
TJ	Junction temperature under Bias	+150	°C
$\theta_{JA}$	Thermal Resistance (Note 3)	69.1	°C/W
P <sub>D</sub>	Power Dissipation in Still Air at 65°C (Note 4)	500	mW
MSL	Moisture Sensitivity	Level 1	
F <sub>R</sub>	Flammability Rating Oxygen Index: 30% - 35%	UL 94 V-0 @ 0.125 in	
V <sub>ESD</sub>	ESD Withstand Voltage Human Body Model (Note 5) Machine Model (Note 6) Charged Device Model (Note 7)	> 2000 > 200 > 1000	V
I <sub>Latch-Up</sub>	Latch-Up Performance Above V <sub>CC</sub> and Below GND at 85°C (Note 8)	±100	mA

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.
I<sub>O</sub> absolute maximum rating must be observed.
The package thermal impedance is calculated in accordance with JESD51-7.

4. 500 mW at  $65^{\circ}$ C; derate to 300 mW by 10 mW/ from  $65^{\circ}$ C to  $85^{\circ}$ C.

5. Tested to EIA/JESD22-A114-A.

Tested to EIA/JESD22-A115-A.
Tested to JESD22-C101-A.

8. Tested to EIA/JESD78.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Max	Unit
V <sub>CC</sub>	DC Supply Voltage (Referenced to GND)	2.0	6.0	V
V <sub>IN</sub> /V <sub>OUT</sub>	Input Voltage, Output Voltage (Referenced to GND)	0	V <sub>CC</sub>	-
T <sub>A</sub>	Operating Temperature, All Package Types	-40	+85	°C
t <sub>r</sub> /t <sub>f</sub>	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	0 0 0	150 40 25	ns/V

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.

#### MC74AC4040

#### DC CHARACTERISTICS (unless otherwise specified)

Symbol	Parameter	Value	Unit	
Icc	Maximum Quiescent Supply Voltage	80	μΑ	$V_{in} = V_{CC}$ or GND $V_{CC} = 5.5$ V, $T_A =$ Worst Case
Icc	Maximum Quiescent Supply Current	8.0	μΑ	$V_{in} = V_{CC}$ or GND $V_{CC} = 5.5$ V, $T_A = 25^{\circ}$ C

#### **DC CHARACTERISTICS**

			74	AC	74AC		
		v <sub>cc</sub>	<b>TA</b> = +	⊦25°C	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$		
Symbol	Parameter	(V)	Тур	G	uaranteed Limits	Unit	Conditions
V <sub>IH</sub>	Minimum High Level Input Voltage	3.0 4.5 5.5	- - -	2.1 3.15 3.85	2.1 3.15 3.85	V	V <sub>OUT</sub> = 0.1 V or V <sub>CC</sub> – 0.1 V
V <sub>IL</sub>	Maximum Low Level Input Voltage	3.0 4.5 5.5	- - -	0.9 1.35 1.65	0.9 1.35 1.65	V	$V_{OUT} = 0.1 V$ or $V_{CC} - 0.1 V$
V <sub>OH</sub>	Minimum High Level Output Voltage	3.0 4.5 5.5	2.99 4.49 5.49	2.9 4.4 5.4	2.9 4.4 5.4	V	I <sub>OUT</sub> = -50 μA
		3.0 4.5 5.5	- - -	2.56 3.86 4.86	2.46 3.76 4.76	V	$V_{IN} = V_{IL} \text{ or } V_{IH}$ -12 mA $I_{OH}$ -24 mA -24 mA
V <sub>OL</sub>	Maximum Low Level Output Voltage	3.0 4.5 5.5	0.002 0.001 0.001	0.1 0.1 0.1	0.1 0.1 0.1	V	I <sub>OUT</sub> = 50 μA
		3.0 4.5 5.5	- - -	0.36 0.36 0.36	0.44 0.44 0.44	V	*V <sub>IN</sub> = V <sub>IL</sub> or V <sub>IH</sub> 12 mA I <sub>OL</sub> 24 mA 24 mA
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μΑ	V <sub>I</sub> = V <sub>CC</sub> , GND
I <sub>OLD</sub>	Minimum Dynamic Output Current†	5.5	-	-	75	mA	V <sub>OLD</sub> = 1.65 V Max
I <sub>OHD</sub>		5.5	-	-	-75	mA	V <sub>OHD</sub> = 3.85 V Min

\*All outputs loaded; thresholds on input associated with output under test. †Maximum test duration 2.0 ms, one output loaded at a time.

#### MC74AC4040

				74AC		74	AC		
		V <sub>cc</sub> *		<sub>A</sub> = +25° ; <sub>L</sub> = 50 p		T <sub>A</sub> = -40°C C <sub>L</sub> = 5	C to +85°C 50 pF		
Symbol	Parameter	(V)	Min	Тур	Max	Min	Max	Unit	Fig. No.
f <sub>max</sub>	Maximum Clock Frequency	3.3 5.0	110 130	120 140	-	100 120	-	MHz	_
n <sub>CP</sub> to Q1	Propagation Delay n <sub>CP</sub> to Q1	3.3 5.0	2.0 2.0	-	11 8.0	2.0 2.0	14 10	ns	_
Q <sub>n</sub> to Q <sub>n</sub> +1	Propagation Delay Q <sub>n</sub> to Q <sub>n</sub> +1	3.3 5.0	0 0	-	5.5 3.5	0 0	6.5 4.5	ns	-
MR to Q t <sub>HL</sub>	Propagation Delay MR to Q	3.3 5.0	3.0 3.0	-	12 10	3.0 3.0	15 12	ns	-
t <sub>rec</sub> n <sub>CP</sub> to MR	Recovery Time	3.3 5.0	0 0	-2.5 -1.5	-	0 0	-	ns	-
t <sub>w</sub> n <sub>CP</sub>	Minimum Pulse Width Clock Pin	3.3 5.0	4.0 3.0	3.5 2.5	-	4.5 3.5	-	ns	_
t <sub>w</sub> MR	Minimum Pulse Width Master Reset	3.3 3.0	4.0 3.0	3.5 2.5	-	4.5 3.5	-	ns	_

AC CHARACTERISTICS (For Figures and Waveforms - See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

\*Voltage Range 3.3 V is 3.3 V  $\pm$ 0.3 V. \*Voltage Range 5.0 V is 5.0 V  $\pm$ 0.5 V.

#### CAPACITANCE

Symbol	Parameter	Value Typ	Unit	Test Conditions
C <sub>IN</sub>	Input Capacitance	4.5	pF	V <sub>CC</sub> = 5.0 V
C <sub>PD</sub>	Power Dissipation Capacitance	50	pF	V <sub>CC</sub> = 5.0 V



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

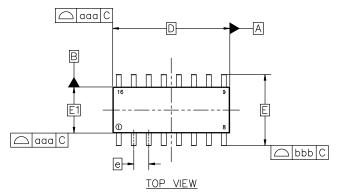
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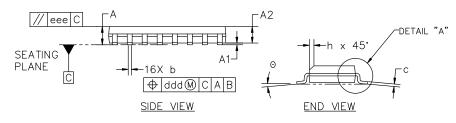
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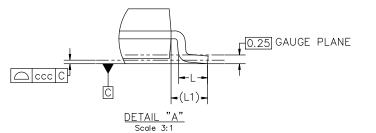
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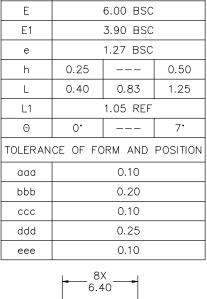
NOTES:

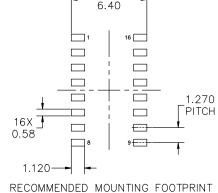
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION & DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm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











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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. 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. 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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