

## **Dual Binary to 1-of-4 Decoder/Demultiplexer**

## MC14555B, MC14556B

The MC14555B and MC14556B are constructed with complementary MOS (CMOS) enhancement mode devices. Each Decoder/Demultiplexer has two select inputs (A and B), an active low Enable input (E), and four mutually exclusive outputs (Q0, Q1, Q2, Q3). The MC14555B has the selected output go to the "high" state, and the MC14556B has the selected output go to the "low" state. Expanded decoding such as binary-to-hexadecimal (1-of-16), etc., can be achieved by using other MC14555B or MC14556B devices.

Applications include code conversion, address decoding, memory selection control, and demultiplexing (using the Enable input as a data input) in digital data transmission systems.

#### **Features**

- Diode Protection on All Inputs
- Active High or Active Low Outputs
- Expandable
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- All Outputs Buffered
- Capable of Driving Two Low-Power TTL Loads or One Low-Power Schottky TTL Load Over the Rated Temperature Range
- NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable
- These Devices are Pb-Free and are RoHS Compliant

#### **MAXIMUM RATINGS** (Voltages Referenced to V<sub>SS</sub>)

Parameter	Symbol	Value	Unit
DC Supply Voltage Range	$V_{DD}$	-0.5 to +18.0	V
Input or Output Voltage Range (DC or Transient)	V <sub>in</sub> , V <sub>out</sub>	-0.5 to V <sub>DD</sub> + 0.5	V
Input or Output Current (DC or Transient) per Pin	I <sub>in</sub> , I <sub>out</sub>	±10	mA
Power Dissipation, per Package (Note 1)	P <sub>D</sub>	500	mW
Ambient Temperature Range	T <sub>A</sub>	-55 to +125	°C
Storage Temperature Range	T <sub>stg</sub>	-65 to +150	°C
Lead Temperature (8-Second Soldering)	$T_L$	260	°C

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.

1. Temperature Derating: "D/DW" Packages: -7.0 mW/°C From 65°C To 125°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  $V_{SS} \le (V_{in} \text{ or } V_{out}) \le V_{DD}$ .

Unused inputs must always be tied to an appropriate logic voltage level (e.g., either  $V_{SS}$  or  $V_{DD}$ ). Unused outputs must be left open.

1



## **PIN ASSIGNMENTS**

1			1	1			1
Ē <sub>A</sub> [	1 ●	16	D V <sub>DD</sub>	E <sub>A</sub> [	1 ●	16	D V <sub>DD</sub>
A <sub>A</sub> [	2	15	ΕB	A <sub>A</sub> [	2	15	ΕB
B <sub>A</sub> [	3	14	A <sub>B</sub>	ВА	3	14	A <sub>B</sub>
Q0 <sub>A</sub>	4	13	B <sub>B</sub>	Q0 <sub>A</sub> [	4	13	B <sub>B</sub>
Q1 <sub>A</sub>	5	12	Q0 <sub>B</sub>	Q1 <sub>A</sub> [	5	12	<u>Q</u> 0 <sub>B</sub>
Q2 <sub>A</sub>	6	11	Q1 <sub>B</sub>	Q <sub>2</sub> A	6	11	Q1 <sub>B</sub>
Q3 <sub>A</sub> [	7	10	Q2 <sub>B</sub>	Q3 <sub>A</sub> [	7	10	Q2 <sub>B</sub>
V <sub>SS</sub> [	8	9	□ Q3 <sub>B</sub>	V <sub>SS</sub> [	8	9	Ū3 <sub>B</sub>
	MC1455	5B			MC1455	6R	

#### **MARKING DIAGRAMS**



SOIC-16

= 5 or 6

= Assembly Location

WL, L = Wafer Lot YY. Y = Year WW, W = Work Week = Pb-Free Package

#### ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 4 of this data sheet.

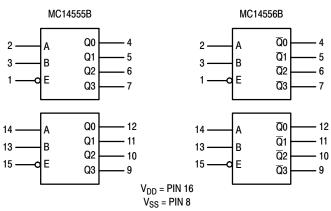
## MC14555B, MC14556B

### **TRUTH TABLE**

lı	Inputs Outputs					Outp				
Enable	Select		ı	MC14555B			N	/IC14	1556	В
Ē	В	Α	Qз	Q2	Q1	Q0	Q3	Q2	Q1	Q0
0	0	0	0	0	0	1	1	1	1	0
0	0	1	0	0	1	0	1	1	0	1
0	1	0	0	1	0	0	1	0	1	1
0	1	1	1	0	0	0	0	1	1	1
1	Χ	Х	0	0	0	0	1	1	1	1

X = Don't Care

## **BLOCK DIAGRAM**



## **ELECTRICAL CHARACTERISTICS** (Voltages Referenced to V<sub>SS</sub>)

			- 5	5°C	25°C		125°C			
Characteristic	Symbol	V <sub>DD</sub> Vdc	Min	Max	Min	Typ (Note 2)	Max	Min	Max	Unit
Output Voltage "0" Level $V_{in} = V_{DD}$ or 0	V <sub>OL</sub>	5.0 10 15	- - -	0.05 0.05 0.05	- - -	0 0 0	0.05 0.05 0.05	- - -	0.05 0.05 0.05	Vdc
V <sub>in</sub> = 0 or V <sub>DD</sub> "1" Level	V <sub>OH</sub>	5.0 10 15	4.95 9.95 14.95	- - -	4.95 9.95 14.95	5.0 10 15	- - -	4.95 9.95 14.95	- - -	Vdc
Input Voltage "0" Level (V <sub>O</sub> = 4.5 or 0.5 Vdc) (V <sub>O</sub> = 9.0 or 1.0 Vdc) (V <sub>O</sub> = 13.5 or 1.5 Vdc)	V <sub>IL</sub>	5.0 10 15	- - -	1.5 3.0 4.0	- - -	2.25 4.50 6.75	1.5 3.0 4.0	- - -	1.5 3.0 4.0	Vdc
"1" Level (V <sub>O</sub> = 0.5 or 4.5 Vdc) (V <sub>O</sub> = 1.0 or 9.0 Vdc) (V <sub>O</sub> = 1.5 or 13.5 Vdc)	V <sub>IH</sub>	5.0 10 15	3.5 7.0 11	- - -	3.5 7.0 11	2.75 5.50 8.25	- - -	3.5 7.0 11	- - -	Vdc
Output Drive Current (V <sub>OH</sub> = 2.5 Vdc) Source (V <sub>OH</sub> = 4.6 Vdc) (V <sub>OH</sub> = 9.5 Vdc) (V <sub>OH</sub> = 13.5 Vdc)	I <sub>OH</sub>	5.0 5.0 10 15	-3.0 -0.64 -1.6 -4.2	- - -	-2.4 -0.51 -1.3 -3.4	-4.2 -0.88 -2.25 -8.8		-1.7 -0.36 -0.9 -2.4		mAdc
$(V_{OL} = 0.4 \text{ Vdc})$ Sink $(V_{OL} = 0.5 \text{ Vdc})$ $(V_{OL} = 1.5 \text{ Vdc})$	l <sub>OL</sub>	5.0 10 15	0.64 1.6 4.2	- - -	0.51 1.3 3.4	0.88 2.25 8.8	- - -	0.36 0.9 2.4	- - -	mAdc
Input Current	l <sub>in</sub>	15	_	±0.1	_	±0.00001	±0.1	-	±1.0	μAdc
Input Capacitance, (V <sub>in</sub> = 0)	C <sub>in</sub>	-	_	_	_	5.0	7.5	_	_	pF
Quiescent Current (Per Package)	I <sub>DD</sub>	5.0 10 15	- - -	5.0 10 20	- - -	0.005 0.010 0.015	5.0 10 20	- - -	150 300 600	μAdc
Total Supply Current (Notes 3, 4) (Dynamic plus Quiescent, Per Package) (C <sub>L</sub> = 50 pF on all outputs, all buffers switching)	I <sub>T</sub>	5.0 10 15			$I_{T} = (1$	.85 μA/kHz) .70 μA/kHz) .60 μA/kHz)	f + I <sub>DD</sub>			μAdc

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions.

- Data labelled "Typ" is not to be used for design purposes but is intended as an indication of the IC's potential performance.
   The formulas given are for the typical characteristics only at 25°C.
- To calculate total supply current at loads other than 50 pF: I<sub>T</sub>(C<sub>L</sub>) = I<sub>T</sub>(50 pF) + (C<sub>L</sub> 50) Vfk where: I<sub>T</sub> is in μA (per package), C<sub>L</sub> in pF, V = (V<sub>DD</sub> V<sub>SS</sub>) in volts, f in kHz is input frequency, and k = 0.002.

## MC14555B, MC14556B

## **SWITCHING CHARACTERISTICS** (Note 5) ( $C_L = 50 \text{ pF}, T_A = 25^{\circ}C$ )

Characteristic	Symbol	V <sub>DD</sub>	Min	Typ (Note 6)	Max	Unit
Output Rise and Fall Time $t_{TLH}, t_{THL} = (1.5 \text{ ns/pF}) C_L + 25 \text{ ns}$ $t_{TLH}, t_{THL} = (0.75 \text{ ns/pF}) C_L + 12.5 \text{ ns}$ $t_{TLH}, t_{THL} = (0.55 \text{ ns/pF}) C_L + 9.5 \text{ ns}$	t <sub>TLH</sub> , t <sub>THL</sub>	5.0 10 15	- - -	100 50 40	200 100 80	ns
Propagation Delay Time – A, B to Output $t_{PLH}$ , $t_{PHL}$ = (1.7 ns/pF) $C_L$ + 135 ns $t_{PLH}$ , $t_{PHL}$ = (0.66 ns/pF) $C_L$ + 62 ns $t_{PLH}$ , $t_{PHL}$ = (0.5 ns/pF) $C_L$ + 45 ns	t <sub>PLH</sub> , t <sub>PHL</sub>	5.0 10 15	- - -	220 95 70	440 190 140	ns
Propagation Delay Time – E to Output $t_{PLH}$ , $t_{PHL}$ = (1.7 ns/pF) $C_L$ + 115 ns $t_{PLH}$ , $t_{PHL}$ = (0.66 ns/pF) $C_L$ + 52 ns $t_{PLH}$ , $t_{PHL}$ = (0.5 ns/pF) $C_L$ + 40 ns	t <sub>PLH</sub> , t <sub>PHL</sub>	5.0 10 15	- - -	200 85 65	400 170 130	ns

- 5. The formulas given are for the typical characteristics only at 25°C.6. Data labelled "Typ" is not to be used for design purposes but is intended as an indication of the IC's potential performance.

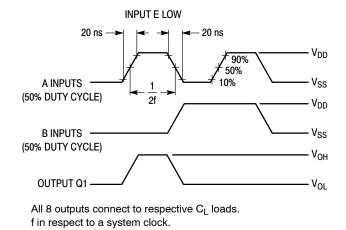


Figure 1. Dynamic Power Dissipation Signal Waveforms

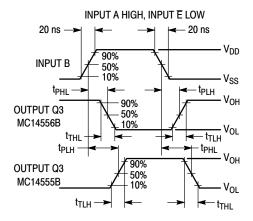
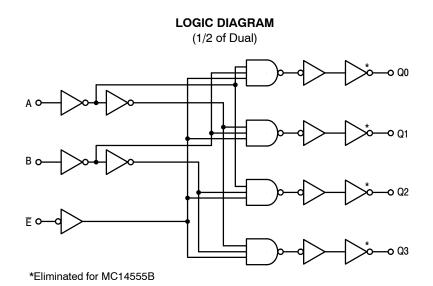


Figure 2. Dynamic Signal Waveforms



## MC14555B, MC14556B

## **ORDERING INFORMATION**

Device	Package	Shipping <sup>†</sup>
MC14555BDG	SOIC-16 (Pb-Free)	48 Units / Rail
MC14555BDR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
NLV14555BDR2G*	SOIC-16 (Pb-Free)	2500 / Tape & Reel
MC14556BDR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
NLV14556BDR2G*	SOIC-16 (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.

<sup>\*</sup>NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.



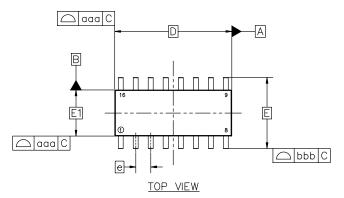


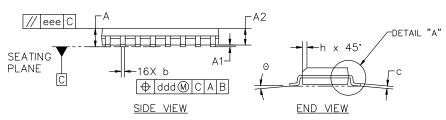
### SOIC-16 9.90x3.90x1.37 1.27P CASE 751B ISSUE M

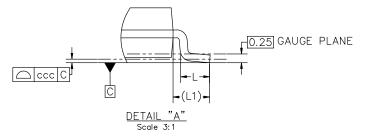
**DATE 18 OCT 2024** 

#### NOTES:

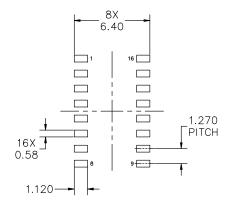
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- 5. DIMENSION 6 DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm TOTAL IN EXCESS OF THE 6 DIMENSION AT MAXIMUM MATERIAL CONDITION.







MILLIMETERS							
DIM	MIN	NOM	MAX				
А	1.35	1.55	1.75				
A1	0.10	0.18	0.25				
A2	1.25	1.37	1.50				
b	0.35	0.42	0.49				
С	0.19	0.22	0.25				
D		9.90 BSC					
E		6.00 BSC					
E1	3.90 BSC						
е	1.27 BSC						
h	0.25		0.50				
L	0.40	0.83	1.25				
L1		1.05 REF					
Θ	0.		7*				
TOLERAN	CE OF FC	RM AND	POSITION				
aaa	0.10						
bbb	0.20						
ccc	0.10						
ddd		0.25					
eee		0.10					



#### RECOMMENDED 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

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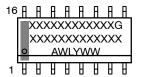
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## **SOIC-16 9.90x3.90x1.37 1.27P** CASE 751B

ISSUE M

**DATE 18 OCT 2024** 

# GENERIC MARKING DIAGRAM\*



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