

Dual 4-Input Multiplexer MC74AC153, MC74ACT153

The MC74AC153/74ACT153 is a high–speed dual 4-input multiplexer with common select inputs and individual enable inputs for each section. It can select two lines of data from four sources. The two buffered outputs present data in the true (non–inverted) form. In addition to multiplexer operation, the MC74AC153/74ACT153 can act as a function generator and generate any two functions of three variables.

- Outputs Source/Sink 24 mA
- 'ACT153 Has TTL Compatible Inputs
- These are Pb-Free Devices

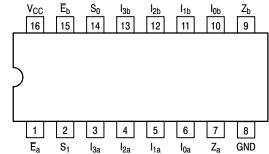


Figure 1. Pinout: 16-Lead Packages Conductors (Top View)

PIN ASSIGNMENT

PIN	FUNCTION
I _{0a} -I _{3a}	Side A Data Inputs
I _{0b} -I _{3b}	Side B Data Inputs
S ₀ , S ₁	Common Select Inputs
Ea	Side A Enable Input
E _b	Side B Enable Input
Za	Side A Output
Z _b	Side B Output

TRUTH TABLE

Sel Inp			Inputs (a or b)					
S ₀	S ₁	E	Io	I ₁	l ₂	l ₃	Z	
Х	Х	Н	Х	Х	Х	Х	L	
L	L	L	L	Χ	Χ	Χ	L	
L	L	L	Н	Χ	Χ	Χ	Н	
Н	L	L	Х	L	Х	Х	L	
Н	L	L	Х	Н	Х	Х	Н	
L	Н	L	Χ	Χ	L	Χ	L	
L	Н	L	Χ	Χ	Н	Χ	Н	
Н	Н	L	Χ	Χ	Χ	L	L	
Н	Н	L	Х	Х	Х	Н	Н	

H = HIGH Voltage Level

L = LOW Voltage Level

X = Immaterial

MARKING DIAGRAMS



SOIC-16 D SUFFIX CASE 751B XXX = Specific Device Code A = Assembly Location

 WL
 = Wafer Lot

 Y
 = Year

 WW
 = Work Week

 G
 = Pb-Free Package

(Note: Microdot may be in either location)

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 6 of this data sheet.

1

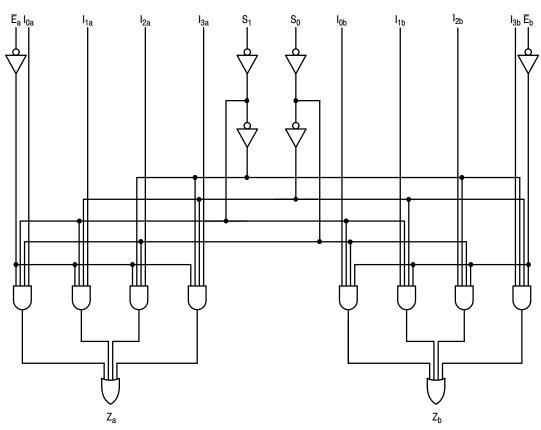
Figure 2. Logic Symbol

FUNCTIONAL DESCRIPTION

The MC74AC153/74ACT153 is a dual 4-input multiplexer. It can select two bits of data from up to four sources under the control of the common Select inputs (S_0 , S_1). The two 4-input multiplexer circuits have individual active-LOW Enables (\overline{E}_a , \overline{E}_b) which can be used to strobe the outputs independently. When the Enables (\overline{E}_a , \overline{E}_b) are HIGH, the corresponding outputs (Z_a , Z_b) are forced LOW. The MC74AC153/74ACT153 is the logic implementation of a 2-pole, 4-position switch, where the position of the switch is determined by the logic levels supplied to the two Select inputs. The logic equations for the outputs are shown below.

$$Z_a = \overline{E}_{a} \bullet (I_{0a} \bullet \overline{S}_1 \bullet \overline{S}_0 + I_{1a} \bullet \overline{S}_1 \bullet S_0 + I_{2a} \bullet S_1 \bullet \overline{S}_0 + I_{3a} \bullet S_1 \bullet S_0)$$

$$Z_b = \overline{E}_b \bullet (I_{0b} \bullet \overline{S}_1 \bullet \overline{S}_0 + I_{1b} \bullet \overline{S}_1 \bullet S_0 + I_{2b} \bullet S_1 \bullet \overline{S}_0 + I_{3b} \bullet S_1 \bullet S_0)$$



NOTE: This diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 3. Logic Diagram

MAXIMUM RATINGS

Symbol	Parameter		Value	Unit
V _{CC}	DC Supply Voltage		-0.5 to +6.5	V
VI	DC Input Voltage		$-0.5 \le V_{I} \le V_{CC} + 0.5$	V
Vo	DC Output Voltage	(Note 1)	$-0.5 \le V_{O} \le V_{CC} + 0.5$	V
I _{IK}	DC Input Diode Current		±20	mA
lok	DC Output Diode Current		±50	mA
Io	DC Output Sink/Source Current		±50	mA
Icc	DC Supply Current per Output Pin		±50	mA
I _{GND}	DC Ground Current per Output Pin		±50	mA
T _{STG}	Storage Temperature Range		-65 to +150	°C
T _L	Lead temperature, 1 mm from Case for 10 S	Seconds	260	°C
TJ	Junction temperature under Bias		+150	°C
$\theta_{\sf JA}$	Thermal Resistance (Note 2)	SOIC	126	°C/W
P _D	Power Dissipation in Still Air at 25°C (Note 3) SOIC	995	mW
MSL	Moisture Sensitivity		Level 1	
F _R	Flammability Rating	Oxygen Index: 30% – 35%	UL 94 V-0 @ 0.125 in	
V _{ESD}		uman Body Model (Note 4) ged Device Model (Note 5)	> 2000 > 1000	V
I _{Latch-Up}	Latch-Up Performance Above V _{CC} and Be	elow GND at 85°C (Note 6)	±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.

- 1. I_O absolute maximum rating must be observed.
- 2. The package thermal impedance is calculated in accordance with JESD51-7.
- 3. 500 mW at 65°C; derate to 300 mW by 10 mW/ from 65°C to 85°C.
- 4. Tested to EIA/JESD22-A114-A.
- 5. Tested to JESD22-C101-A.
- 6. Tested to EIA/JESD78.

RECOMMENDED OPERATING CONDITIONS

Symbol	Parameter		Min	Тур	Max	Unit
V	Consulta Valta and	'AC	2.0	5.0	6.0	V
V _{CC}	Supply Voltage	'ACT	4.5	5.0	5.5	V
V _{IN} , V _{OUT}	DC Input Voltage, Output Voltage (Ref. to GND)		0	-	V _{CC}	V
		V _{CC} @ 3.0 V	-	150	-	
t _r , t _f	Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs	V _{CC} @ 4.5 V	-	40	-	ns/V
	// C Devices except commit impate	V _{CC} @ 5.5 V	-	25	-	
	Input Rise and Fall Time (Note 2)	V _{CC} @ 4.5 V	-	10	-	no //
t _r , t _f	'ACT Devices except Schmitt Inputs	V _{CC} @ 5.5 V	-	8.0	_	ns/V
T _A	Operating Ambient Temperature Range	-40	25	85	°C	
I _{OH}	Output Current – High		-	-	-24	mA
I _{OL}	Output Current – Low			-	24	mA

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.

1. V_{IN} from 30% to 70% V_{CC}; see individual Data Sheets for devices that differ from the typical input rise and fall times.

2. V_{IN} from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

DC CHARACTERISTICS

			74	AC	74AC		
Symbol	Parameter	V _{CC} (V)	T _A = +25°C		T _A = -40°C to +85°C	Unit	Conditions
			Тур	Guaranteed Limits			
V _{IH}	Minimum High Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	2.1 3.15 3.85	2.1 3.15 3.85	٧	V _{OUT} = 0.1 V or V _{CC} - 0.1 V
V _{IL}	Maximum Low Level Input Voltage	3.0 4.5 5.5	1.5 2.25 2.75	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 _{OH}	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 _{OUT} = -50 μA
		3.0 4.5 5.5	- - -	2.56 3.86 4.86	2.46 3.76 4.76	٧	$*V_{IN} = V_{IL} \text{ or } V_{IH}$ -12 mA I_{OH} -24 mA -24 mA
V _{OL}	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 _{OUT} = 50 μA
		3.0 4.5 5.5	- - -	0.36 0.36 0.36	0.44 0.44 0.44	V	*V _{IN} = V _{IL} or V _{IH} 12 mA I _{OL} 24 mA 24 mA
I _{IN}	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μΑ	V _I = V _{CC} , GND
I _{OLD}	†Minimum Dynamic	5.5	-	_	75	mA	V _{OLD} = 1.65 V Max
I _{OHD}	Output Current	5.5	-	-	-75	mA	V _{OHD} = 3.85 V Min
I _{CC}	Maximum Quiescent Supply Current	5.5	_	8.0	80	μΑ	V _{IN} = V _{CC} or GND

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

NOTE: I_{IN} and I_{CC} @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V_{CC} .

AC CHARACTERISTICS

	Parameter		74AC T _A = +25°C C _L = 50 pF			74	AC	
Symbol		V _{CC} * (V)				T _A = -40°C to +85°C C _L = 50 pF		Unit
			Min	Тур	Max	Min	Max	1
t _{PLH}	Propagation Delay S _n to Z _n	3.3 5.0	2.5 2.0	9.5 6.5	15.0 11.0	2.5 2.0	17.5 12.5	ns
t _{PHL}	Propagation Delay S _n to Z _n	3.3 5.0	3.0 2.5	8.5 6.5	14.5 11.0	2.5 2.0	16.5 12.0	ns
t _{PLH}	Propagation Delay E _n to Z _n	3.3 5.0	2.5 1.5	8.0 5.5	13.5 9.5	2.0 1.5	16.0 11.0	ns
t _{PHL}	Propagation Delay \overline{E}_n to Z_n	3.3 5.0	2.5 2.0	7.0 5.0	11.0 8.0	2.0 1.5	12.5 9.0	ns
t _{PLH}	Propagation Delay I _n to Z _n	3.3 5.0	2.5 1.5	7.5 5.5	12.5 9.0	2.0 1.5	14.5 10.5	ns
t _{PHL}	Propagation Delay I_n to Z_n	3.3 5.0	1.5 1.5	7.0 5.0	11.5 8.5	1.5 1.5	13.0 10.0	ns

^{*}Voltage Range 3.3 V is 3.3 V ± 0.3 V. *Voltage Range 5.0 V is 5.0 V ± 0.5 V.

DC CHARACTERISTICS

			74	CT	74ACT			
Symbol	Parameter	V _{CC} (V)			T _A = -40°C to +85°C	Unit	Conditions	
			Тур	Gua	ranteed Limits			
V _{IH}	Minimum High Level Input Voltage	4.5 5.5	1.5 1.5	2.0 2.0	2.0 2.0	V	V _{OUT} = 0.1 V or V _{CC} – 0.1 V	
V _{IL}	Maximum Low Level Input Voltage	4.5 5.5	1.5 1.5	0.8 0.8	0.8 0.8	V	V _{OUT} = 0.1 V or V _{CC} – 0.1 V	
V _{OH}	Minimum High Level Output Voltage	4.5 5.5	4.49 5.49	4.4 5.4	4.4 5.4	V	I _{OUT} = -50 μA	
		4.5 5.5	- -	3.86 4.86	3.76 4.76	٧	*V _{IN} = V _{IL} or V _{IH} -24 mA I _{OH} -24 mA	
V _{OL}	Maximum Low Level Output Voltage	4.5 5.5	0.001 0.001	0.1 0.1	0.1 0.1	V	Ι _{ΟUT} = 50 μΑ	
		4.5 5.5	- -	0.36 0.36	0.44 0.44	V	$V_{IN} = V_{IL} \text{ or } V_{IH}$ Q_{IOL} Q_{IOL} Q_{IM} Q_{IM}	
I _{IN}	Maximum Input Leakage Current	5.5	-	±0.1	±1.0	μΑ	V _I = V _{CC} , GND	
ΔI_{CCT}	Additional Max. I _{CC} /Input	5.5	0.6	-	1.5	mA	V _I = V _{CC} - 2.1 V	
I _{OLD}	†Minimum Dynamic	5.5	-	_	75	mA	V _{OLD} = 1.65 V Max	
I _{OHD}	Output Current	5.5	-	-	-75	mA	V _{OHD} = 3.85 V Min	
Icc	Maximum Quiescent Supply Current	5.5	-	8.0	80	μΑ	V _{IN} = V _{CC} or GND	

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

AC CHARACTERISTICS

	Parameter		V _{CC} * (V)	74ACT T _A = +25°C C _L = 50 pF			744	CT	
Symbol							T _A = -40°C to +85°C C _L = 50 pF		Unit
				Min	Тур	Max	Min	Max	
t _{PLH}	Propagation Delay S _n to Z _n		5.0	3.0	7.0	11.5	2.0	13.5	ns
t _{PHL}	Propagation Delay S_n to Z_n		5.0	3.0	7.0	11.5	2.5	13.5	ns
t _{PLH}	Propagation Delay \overline{E}_n to Z_n		5.0	2.0	6.5	10.5	2.0	12.5	ns
t _{PHL}	Propagation Delay \overline{E}_n to Z_n		5.0	3.0	6.0	9.5	2.5	11.0	ns
t _{PLH}	Propagation Delay I _n to Z _n		5.0	2.5	5.5	9.5	2.0	11.0	ns
t _{PHL}	Propagation Delay I _n to Z _n		5.0	2.0	5.5	9.5	2.0	11.0	ns

^{*}Voltage Range 5.0 V is 5.0 V ± 0.5 V.

CAPACITANCE

Symbol	Parameter	Value Typ	Unit	Test Conditions
C _{IN}	Input Capacitance	4.5	pF	V _{CC} = 5.0 V
C _{PD}	Power Dissipation Capacitance	65	pF	V _{CC} = 5.0 V

ORDERING INFORMATION

Device Order Number	Marking	Package	Shipping [†]
MC74ACT153DG	ACT153	SOIC-16 (Pb-Free)	48 Units / Rail
MC74ACT153DR2G	ACT153	SOIC-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.



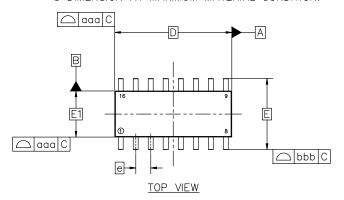


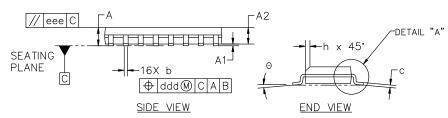
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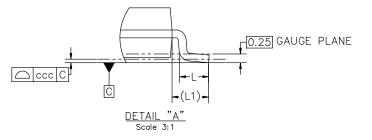
DATE 18 OCT 2024

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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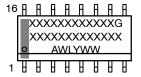
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ISSUE M

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