

8-Channel Data Selector MC14512B

The MC14512B is an 8-channel data selector constructed with MOS P-channel and N-channel enhancement mode devices in a single monolithic structure. This data selector finds primary application in signal multiplexing functions. It may also be used for data routing, digital signal switching, signal gating, and number sequence generation.

Features

- Diode Protection on All Inputs
- Single Supply Operation
- 3-State Output (Logic "1", Logic "0", High Impedance)
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- 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
- This Device is Pb-Free and is RoHS Compliant

MAXIMUM RATINGS (Voltages Referenced to V_{SS})

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 _{in} , V _{out}	-0.5 to V _{DD} + 0.5	V
Input or Output Current (DC or Transient) per Pin	I _{in} , I _{out}	±10	mA
Power Dissipation, Per Package (Note 1)	P _D	500	mW
Ambient Temperature Range	T _A	-55 to +125	°C
Storage Temperature Range	T _{stg}	-65 to +150	°C
Lead Temperature (8-Second Soldering)	TL	260	°C

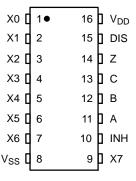
Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected. Operating the device outside its recommended conditions, but still within its maximum rated limits may not cause immediate damage. However, doing so can lead to reduced performance, unpredictable behavior, and potentially shorten the device's lifespan or reliability.

1. Temperature Derating: "D/DW" Package: -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, V_{in} and V_{out} should be constrained to the range $V_{SS} \leq (V_{in} \text{ or } V_{out}) \leq V_{DD}$.

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.



PIN ASSIGNMENT



MARKING DIAGRAM



A = Assembly Location
WL = Wafer Lot
YY, Y = Year

YY, Y = Year

WW = Work Week

G = Pb-Free Package

ORDERING INFORMATION

See detailed ordering and shipping information in the package dimensions section on page 3 of this data sheet.

NOTE: Some of the devices on this data sheet have been **DISCONTINUED**. Please refer to the table on page 3.

TRUTH TABLE

С	В	Α	Inhibit	Disable	Z
0	0	0	0	0	X0
0	0	1	0	0	X1
0	1	0	0	0	X2
0	1	1	0	0	Х3
1	0	0	0	0	X4
1	0	1	0	0	X5
1	1	0	0	0	X6
1	1	1	0	0	X7
Х	Х	Х	1	0	0
Χ	Х	Х	Χ	1	High Impedance

NOTE: X = Don't Care

ELECTRICAL CHARACTERISTICS (Voltages Referenced to V_{SS})

				-55	S°C		25 °C		125	S°C	
Characteristic	:	Symbol	V _{DD} Vdc	Min	Max	Min	Typ (Note 2)	Max	Min	Max	Unit
Output Voltage V _{in} = V _{DD} or 0	"0" Level	V _{OL}	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
$V_{in} = 0$ or V_{DD}	"1" Level	V _{OH}	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 (V _O = 4.5 or 0.5 Vdc) (V _O = 9.0 or 1.0 Vdc) (V _O = 13.5 or 1.5 Vdc)	"0" Level	V _{IL}	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
$(V_O = 0.5 \text{ or } 4.5 \text{ Vdc})$ $(V_O = 1.0 \text{ or } 9.0 \text{ Vdc})$ $(V_O = 1.5 \text{ or } 13.5 \text{ Vdc})$	"1" Level	V _{IH}	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 $ \begin{array}{l} (V_{OH} = 2.5 \; Vdc) \\ (V_{OH} = 4.6 \; Vdc) \\ (V_{OH} = 9.5 \; Vdc) \\ (V_{OH} = 13.5 \; Vdc) \end{array} $	Source	ІОН	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
$(V_{OL} = 0.4 \text{ Vdc})$ $(V_{OL} = 0.5 \text{ Vdc})$ $(V_{OL} = 1.5 \text{ Vdc})$	Sink	I _{OL}	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 _{in}	15	_	±0.1	_	±0.00001	±0.1	_	±1.0	μAdc
Input Capacitance (V _{in} = 0)		C _{in}	-	_	_	_	5.0	7.5	_	-	pF
Quiescent Current (Per Package)		I _{DD}	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 (Note (Dynamic plus Quiescer Per Package) (C _L = 50 pF on all outpubuffers switching)	nt, `	I _T	5.0 10 15			$I_{T} = (1$.8 μΑ/kHz) f .6 μΑ/kHz) f .4 μΑ/kHz) f	+ I _{DD}			μAdc
3-State Leakage Current		I _{TL}	15	_	±0.1	_	±0.0001	±0.1	_	±3.0	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.

2. Data labelled "Typ" is not to be used for design purposes but is intended as an indication of the IC's potential performance.

- Data labelled Typ is not to be used for design purposes but is interiored 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_T(C_L) = I_T(50 pF) + (C_L 50) Vfk where: I_T is in μA (per package), C_L in pF, V = (V_{DD} V_{SS}) in volts, f in kHz is input frequency, and k = 0.001.

SWITCHING CHARACTERISTICS (Note 5) ($C_L = 50 \text{ pF}$, $T_A = 25 ^{\circ}\text{C}$, See Figure 1)

			All T	ypes	
Characteristic	Symbol	V _{DD}	Typ (Note 6)	Max	Unit
Output Rise and Fall Time t_{TLH} , t_{THL} = (1.5 ns/pF) C_L + 25 ns t_{TLH} , t_{THL} = (0.75 ns/pF) C_L + 12.5 ns t_{TLH} , t_{THL} = (0.55 ns/pF) C_L + 9.5 ns	t _{TLH} , t _{THL}	5.0 10 15	100 50 40	200 100 80	ns
Propagation Delay Time (Figure 2) Inhibit, Control, or Data to Z	t _{PLH}	5.0 10 15	330 125 85	650 250 170	ns
Propagation Delay Time (Figure 2) Inhibit, Control, or Data to Z	t _{PHL}	5.0 10 15	330 125 85	650 250 170	ns
3-State Output Delay Times (Figure 3) "1" or "0" to High Z, and High Z to "1" or "0"	t _{PHZ} , t _{PLZ} , t _{PZH} , t _{PZL}	5.0 10 15	60 35 30	150 100 75	ns

ORDERING INFORMATION

Device	Package	Shipping [†]
MC14512BDR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
NLV14512BDR2G*	SOIC-16 (Pb-Free)	2500 / Tape & Reel

DISCONTINUED (Note 7)

MC14512BDG	SOIC-16 (Pb-Free)	48 Units / Rail
NLV14512BDG*	SOIC-16 (Pb-Free)	48 Units / Rail

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.

^{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.

NLV Prefix for Automotive and Other Applications Requiring Unique Site and Control Change Requirements; AEC-Q100 Qualified and PPAP Capable.

^{7.} DISCONTINUED: These devices are not recommended for new design. Please contact your onsemi representative for information. The most current information on these devices may be available on www.onsemi.com.

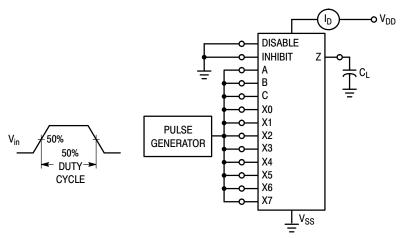


Figure 1. Power Dissipation Test Circuit and Waveform

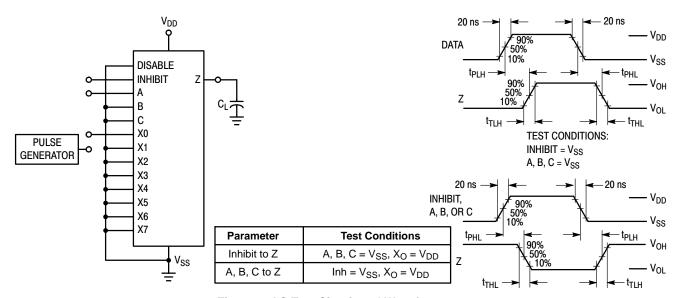


Figure 2. AC Test Circuit and Waveforms

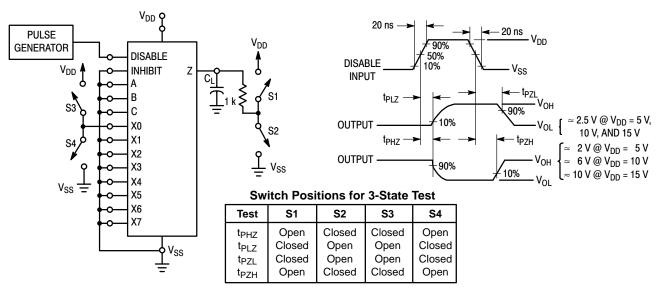
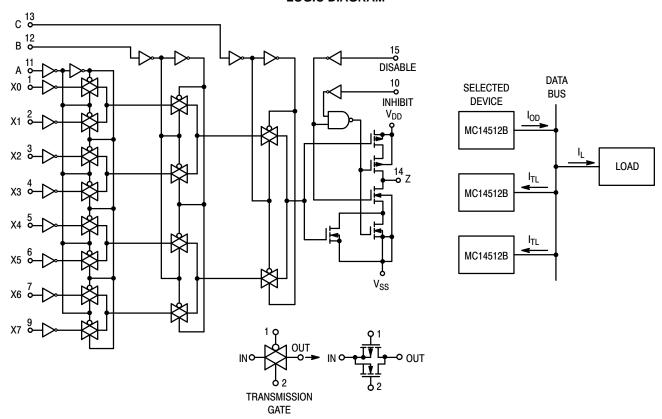


Figure 3. 3-State AC Test Circuit and Waveform

LOGIC DIAGRAM



3-STATE MODE OF OPERATION

Output terminals of several MC14512B 8-Bit Data Selectors can be connected to a single date bus as shown. One MC14512B is selected by the 3-state control, and the remaining devices are disabled into a high-impedance "off" state. The number of 8-bit data selectors, N, that may be connected to a bus line is determined from the output drive current, $I_{\rm OD}$, 3-state or disable output leakage current, $I_{\rm TL}$, and the load current, $I_{\rm L}$, required to drive the bus line

(including fanout to other device inputs), and can be calculated by:

$$N = \frac{I_{OD} - I_L}{I_{TL}} + 1$$

N must be calculated for both high and low logic state of the bus line.

REVISION HISTORY

Revision	Description of Changes	Date
11	Rebranded the Data Sheet to onsemi format. MC14512BDG, NLV14512BDG OPNs marked as Discontinued.	10/3/2025

This document has undergone updates prior to the inclusion of this revision history table. The changes tracked here only reflect updates made on the noted approval dates.



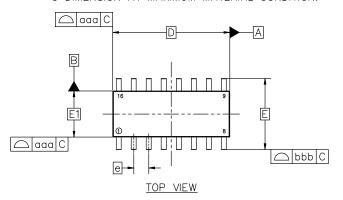


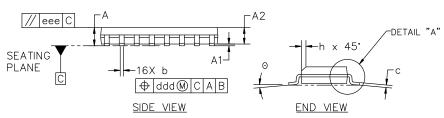
SOIC-16 9.90x3.90x1.37 1.27P CASE 751B ISSUE M

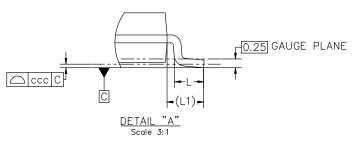
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NOTES:

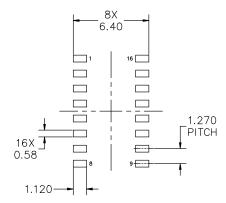
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- 5. DIMENSION 6 DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm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







	MILLIM	ETERS			
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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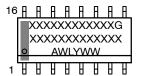
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SOIC-16 9.90x3.90x1.37 1.27P CASE 751B

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