MC14503B

Hex Non-Inverting 3-State Buffer

The MC14503B is a hex non-inverting buffer with 3-state outputs, and a high current source and sink capability. The 3-state outputs make it useful in common bussing applications. Two disable controls are provided. A high level on the Disable A input causes the outputs of buffers 1 through 4 to go into a high impedance state and a high level on the Disable B input causes the outputs of buffers 5 and 6 to go into a high impedance state.

Features

- 3-State Outputs
- TTL Compatible Will Drive One TTL Load Over Full Temperature Range
- Supply Voltage Range = 3.0 Vdc to 18 Vdc
- Two Disable Controls for Added Versatility
- Pin for Pin Replacement for MM80C97 and 340097
- 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}) (Note 1)

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 Current (DC or Transient) per Pin	I _{in}	±10	mA
Output Current (DC or Transient) per Pin	l _{out}	±25	mA
Power Dissipation, per Package (Note 2)	P _D	500	mW
Ambient Temperature Range	T _A	-55 to +125	°C
Storage Temperature Range		-65 to +150	°C
Lead Temperature (8–Second Soldering)		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.

- Maximum Ratings are those values beyond which damage to the device may
 occur.
- 2. 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.



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PIN ASSIGNMENT

	_				
DIS A	þ	1 ●	16	þ	V_{DD}
IN 1	þ	2	15	þ	DIS B
OUT 1	þ	3	14	þ	IN 6
IN 2	þ	4	13	þ	OUT 6
OUT 2	þ	5	12	þ	IN 5
IN 3	þ	6	11	þ	OUT 5
OUT 3	þ	7	10	þ	IN 4
V_{SS}	þ	8	9	þ	OUT 4

MARKING DIAGRAM



A = Assembly Location

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

TRUTH TABLE

In _n	Appropriate Disable Input	Out _n
0	0	0
1	0	1
Х	1	High Impedance

X = Don't Care

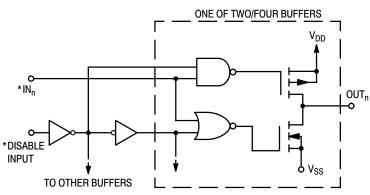
ORDERING INFORMATION

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

LOGIC DIAGRAM

DISABLE B o 15 <u>11</u>0 OUT 5 13 O OUT 6 IN 60¹⁴ 3 O OUT 1 **O** OUT 2 O OUT 4 DISABLE A O V_{DD} = PIN 16 V_{SS} = PIN 8

CIRCUIT DIAGRAM



*Diode protection on all inputs (not shown)

ELECTRICAL CHARACTERISTICS (Voltages Referenced to V_{SS})

				– 55°C 25°C		125	°C				
Characteristic		Symbol	V _{DD} Vdc	Min	Max	Min	Typ (Note 3)	Max	Min	Max	Unit
$V_{in} = 0$)" 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
$V_{in} = V_{DD}$ "1	I" 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 "C (V _O = 3.6 or 1.4 Vdc) (V _O = 7.2 or 2.8 Vdc) (V _O = 11.5 or 3.5 Vdc))" Level	V _{IL}	5.0 10 15		1.5 3.0 4.0	1 1 1	2.25 4.50 6.75	1.5 3.0 4.0	- - -	1.5 3.0 4.0	Vdc
"1 (V _O = 1.4 or 3.6 Vdc) (V _O = 2.8 or 7.2 Vdc) (V _O = 3.5 or 11.5 Vdc)	I" Level	V _{IH}	5.0 10 15	3.5 7.0 11	1 1 1	3.5 7.0 11	2.75 5.50 8.25	1 1 1	3.5 7.0 11	1 1 1	Vdc
Output Drive Current	Source	ОН	4.5 5.0 5.0 10 15	-4.3 -5.8 -1.2 -3.1 -8.2	1 1 1 1	-3.6 -4.8 -1.02 -2.6 -6.8	-5.0 -6.1 -1.4 -3.7 -14.1	1 1 1 1	-2.5 -3.0 -0.7 -1.8 -4.8	1 1 1 1	mAdc
(V _{OL} = 0.4 Vdc) (V _{OL} = 0.4 Vdc) (V _{OL} = 0.5 Vdc) (V _{OL} = 1.5 Vdc)	Sink	I _{OL}	4.5 5.0 10 15	2.2 2.6 6.5 19.2	- - -	1.8 2.1 5.5 16.1	2.1 2.3 6.2 25	- - -	1.2 1.3 3.8 11.2	- - -	mAdc
Input Current		l _{in}	15	-	±0.1	-	±0.00001	±0.1	_	±1.0	μAdc
Input Capacitance, (V _{in} = 0)		C _{in}	ı	-	-	-	5.0	7.5	_	-	pF
Quiescent Current, (Per Packa	age)	ō	5.0 10 15		1.0 2.0 4.0	1 1 1	0.002 0.004 0.006	1.0 2.0 4.0		30 60 120	μAdc
Total Supply Current (Note 4, 9) (Dynamic plus Quiescent, Per Package) (C _L = 50 pF on all outputs) (All outputs switching, 50% Duty Cycle)	,	Ι _Τ	5.0 10 15	1 (- 1 , - 7				μAdc			
3-State Output Leakage Curre	ent	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.

- 3. Data labelled "Typ" is not to be used for design purposes but is intended as an indication of the IC's potential performance.
 4. 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 = 0.006.

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SWITCHING CHARACTERISTICS (Note 6) ($C_L = 50 \text{ pF}, T_A = 25^{\circ}C$)

			All Ty	pes	
Characteristic	Symbol	V _{DD} V _{CC}	Typ (Note 7)	Max	Unit
Output Rise Time $t_{TLH} = (0.5 \text{ ns/pF}) C_L + 20 \text{ ns}$ $t_{TLH} = (0.3 \text{ ns/pF}) C_L + 8.0 \text{ ns}$ $t_{TLH} = (0.2 \text{ ns/pF}) C_L + 8.0 \text{ ns}$	t _{TLH}	5.0 10 15	45 23 18	90 45 35	ns
Output Fall Time $t_{THL} = (0.5 \text{ ns/pF}) C_L + 20 \text{ ns}$ $t_{THL} = (0.3 \text{ ns/pF}) C_L + 8.0 \text{ ns}$ $t_{THL} = (0.2 \text{ ns/pF}) C_L + 8.0 \text{ ns}$	t _{THL}	5.0 10 15	45 23 18	90 45 35	ns
Turn–Off Delay Time, all Outputs $t_{PLH} = (0.3 \text{ ns/pF}) C_L + 60 \text{ ns}$ $t_{PLH} = (0.15 \text{ ns/pF}) C_L + 27 \text{ ns}$ $t_{PLH} = (0.1 \text{ ns/pF}) C_L + 20 \text{ ns}$	t _{PLH}	5.0 10 15	75 35 25	150 70 50	ns
Turn–On Delay Time, all Outputs $t_{PHL} = (0.3 \text{ ns/pF}) C_L + 60 \text{ ns}$ $t_{PHL} = (0.15 \text{ ns/pF}) C_L + 27 \text{ ns}$ $t_{PHL} = (0.1 \text{ ns/pF}) C_L + 20 \text{ ns}$	t _{PHL}	5.0 10 15	75 35 25	150 70 50	ns
3–State Propagation Delay Time Output "1" to High Impedance	[†] PHZ	5.0 10 15	75 40 35	150 80 70	ns
Output "0" to High Impedance	t _{PLZ}	5.0 10 15	80 40 35	160 80 70	ns
High Impedance to "1" Level	^t PZH	5.0 10 15	65 25 20	130 50 40	ns
High Impedance to "0" Level	t _{PZL}	5.0 10 15	100 35 25	200 70 50	ns

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

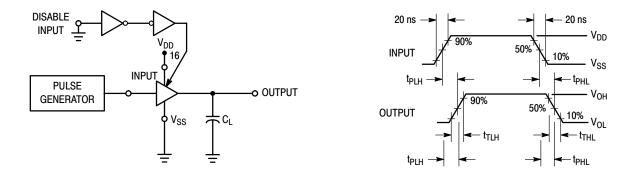
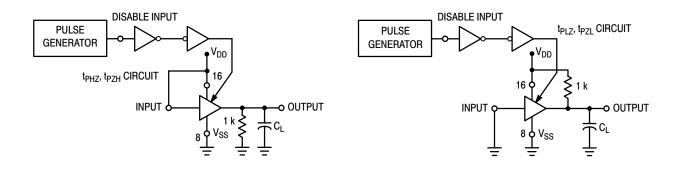


Figure 1. Switching Time Test Circuit and Waveforms $(t_{TLH}, t_{THL}, t_{PHL}, and t_{PLH})$



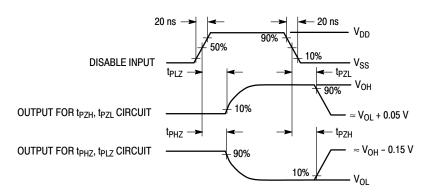


Figure 2. 3-State AC Test Circuit and Waveforms (t_{PLZ}, t_{PHZ}, t_{PZH}, t_{PZL})

ORDERING INFORMATION

Device	Package	Shipping [†]
MC14503BDG	SOIC-16 (Pb-Free)	48 / Rail
MC14503BDR2G	SOIC-16 (Pb-Free)	2500 / Tape & Reel
NLV14503BDR2G*	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.

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



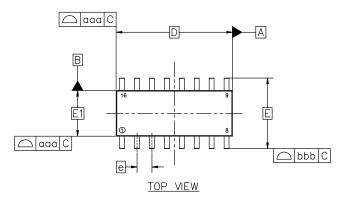


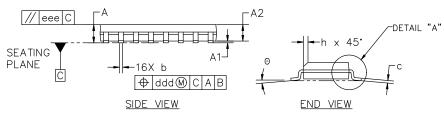
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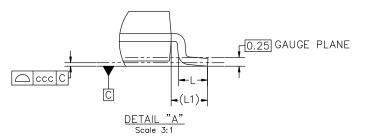
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NOTES:

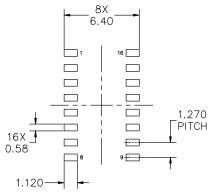
- 1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 2018.
- 2. DIMENSION IN MILLIMETERS. ANGLE IN DEGREES.
- 3. DIMENSIONS D AND E1 DO NOT INCLUDE MOLD PROTRUSION.
- 4. MAXIMUM MOLD PROTRUSION 0.15mm PER SIDE.
- DIMENSION 6 DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.127mm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







MILLIMETERS								
DIM	MIN NOM MAX							
А	1.35	1.55	1.75					
A1	0.00	0.05	0.10					
A2	1.35	1.50	1.65					
Ь	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

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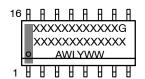
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DATE 29 MAY 2024

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.

077/15/		077/15.0		071/15 0		T.4.	
STYLE 1: PIN 1.	COLLECTOR	STYLE 2:	CATHODE	STYLE 3: PIN 1.		TYLE 4: PIN 1.	COLLECTOR DVF #1
PIN 1. 2.		PIN 1. 2.		PIN 1. 2.	COLLECTOR, DYE #1 BASE, #1	PIN 1. 2.	
2. 3.	EMITTER	2. 3.	NO CONNECTION				
				3.		3.	
4.	NO CONNECTION	4.		4.		4.	
5.	EMITTER	5.		5.		5.	
6.	BASE	6.		6.		6.	
7.		7.			EMITTER, #2		COLLECTOR, #4
8.		8.		8.			COLLECTOR, #4
9.		9.			COLLECTOR, #3		BASE, #4
10.			ANODE		BASE, #3		EMITTER, #4
	NO CONNECTION	11.			EMITTER, #3		BASE, #3
	EMITTER		CATHODE		COLLECTOR, #3		EMITTER, #3
	BASE		CATHODE		COLLECTOR, #4		BASE, #2
	COLLECTOR	14.			BASE, #4		EMITTER, #2
15.			ANODE		EMITTER, #4		BASE, #1
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.	CATHODE	STYLE 7: PIN 1.	SOURCE N-CH		
	DRAIN, DYE #1 DRAIN, #1			PIN 1.	SOURCE N-CH COMMON DRAIN (OUTPUT)		
PIN 1.	,	PIN 1.	CATHODE	PIN 1.	COMMON DRAIN (OUTPUT)		
PIN 1. 2.	DRAIN, #1	PIN 1. 2.	CATHODE 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 CATHODE	PIN 1. 2. 3. 4.	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	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) 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.	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) COMMON DRAIN (OUTPUT)		
PIN 1. 2. 3. 4. 5. 6. 7.	DRAIN, #1 DRAIN, #2 DRAIN, #2 DRAIN, #3 DRAIN, #3	PIN 1. 2. 3. 4. 5. 6.	CATHODE 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) SOURCE P-CH		
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 ANODE	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 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 GATE, #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	PIN 1. 2. 3. 4. 5. 6. 7. 8.	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.	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 ANODE ANODE ANODE 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) COMMON DRAIN (OUTPUT) 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 GATE, #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 ANODE ANODE 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) GOMMON DRAIN (OUTPUT) GATE N-CH		
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 DRAIN, #4 GATE, #4 SOURCE, #4 GATE, #3 SOURCE, #3 GATE, #2 SOURCE, #2 SOURCE, #2	PIN 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	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) CATE N-CH 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 GATE, #4 SOURCE, #4 GATE, #3 SOURCE, #3 GATE, #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.	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)		

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