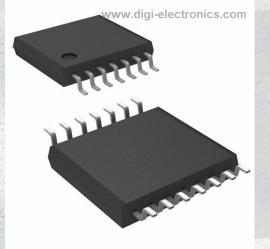


MC14001BDTR2G Datasheet



DiGi Electronics Part Number

Manufacturer

Manufacturer Product Number

Description

Detailed Description

onsemi

MC14001BDTR2G-DG

MC14001BDTR2G IC GATE NOR 4CH 2-INP 14TSSOP NOR Gate IC 4 Channel 14-TSSOP

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
MC14001BDTR2G	onsemi
Series:	Product Status:
4000B	Active
Logic Type:	Number of Circuits:
NOR Gate	4
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
3V ~ 18V	1 µA
Current - Output High, Low:	Input Logic Level - Low:
8.8mA, 8.8mA	1.5V ~ 4V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
3.5V ~ 11V	80ns @ 15V, 50pF
Operating Temperature:	Mounting Type:
-55°C ~ 125°C	Surface Mount
Supplier Device Package:	Package / Case:
14-TSSOP	14-TSSOP (0.173", 4.40mm Width)
Base Product Number:	
MC14001	

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	

8542.39.0001

onsemi

B-Suffix Series CMOS Gates

MC14001B, MC14011B, MC14023B, MC14025B, MC14071B, MC14073B, MC14081B, MC14082B

MC14001B Series

The B Series logic gates are constructed with P and N channel enhancement mode devices in a single monolithic structure (Complementary MOS). Their primary use is where low power dissipation and/or high noise immunity is desired.

Features

- 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.
- Double Diode Protection on All Inputs Except: Triple Diode Protection on MC14011B and MC14081B
- Pin-for-Pin Replacements for Corresponding CD4000 Series B Suffix Devices
- 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_{SS})

-			
Symbol	Parameter	Value	Unit
V _{DD}	DC Supply Voltage Range	-0.5 to +18.0	V
V _{in} , V _{out}	Input or Output Voltage Range (DC or Transient)	–0.5 to V _{DD} + 0.5	V
I _{in} , I _{out}	Input or Output Current (DC or Transient) per Pin	±10	mA
PD	Power Dissipation, per Package (Note 1)	500	mW
T _A	Ambient Temperature Range	–55 to +125	°C
T _{stg}	Storage Temperature Range	-65 to +150	°C
TL	Lead Temperature (8–Second Soldering)	260	°C
V _{ESD}	ESD Withstand Voltage Human Body Model Machine Model Charged Device Model	> 3000 > 300 N/A	V

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, V_{in} and V_{out} should be constrained to the range V_{SS} \leq (V_{in} 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.

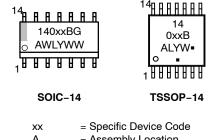




SOIC-14 D SUFFIX CASE 751A

TSSOP-14 DT SUFFIX CASE 948G

MARKING DIAGRAMS



A	= Assembly Location
WL, L	= Wafer Lot
YY, Y	= Year
WW, W	= Work Week
G or ∎	= Pb-Free Package

(Note: Microdot may be in either location)

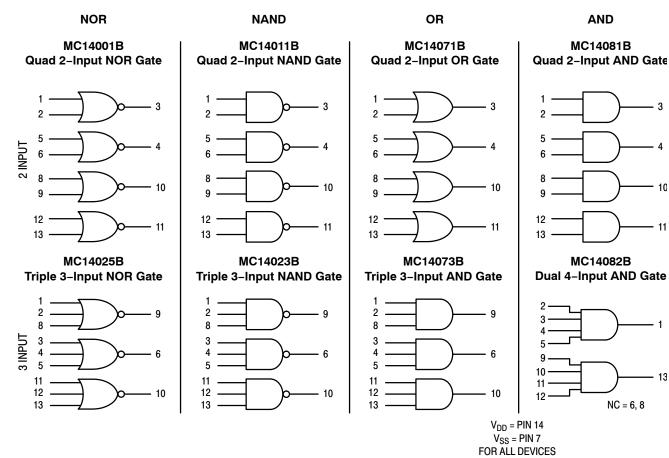
DEVICE INFORMATION

Device	Description
MC14001B	Quad 2-Input NOR Gate
MC14011B	Quad 2-Input NAND Gate
MC14023B	Triple 3-Input NAND Gate
MC14025B	Triple 3-Input NOR Gate
MC14071B	Quad 2-Input OR Gate
MC14073B	Triple 3-Input AND Gate
MC14081B	Quad 2-Input AND Gate
MC14082B	Dual 4-Input AND Gate

ORDERING INFORMATION

See detailed ordering and shipping information on page 8 of this data sheet.

LOGIC DIAGRAMS



PIN ASSIGNMENTS

	MC1400 ⁻ 2–Input N		Gate	Quad		MC140 –Input		D Gate	Triple 3		14023B put NAN	D Gate	Triple	MC14025B 3–Input NO	R Gate
in 1 _a C	1 •	14	V _{DD}	IN 1	₄ C	1●	14	D V _{DD}	IN 1 _A [1•	14	D V _{DD}	in 1 _a C	1• 14	D v _{dd}
IN 2 _A [2	13	IN 2 _D	IN 2	A [2	13] IN 2 _D	IN 2 _A [2	13] IN 3 _C	IN 2 _A [2 13] IN 3 _C
OUT _A [3	12	IN 1 _D	OUT	A [3	12] IN 1 _D	IN 1 _B [3	12] IN 2 _C	IN 1 _B [3 12] IN 2 _C
OUT _B [4	11	OUT _D	OUT	вС	4	11] OUT _D	IN 2 _B [4	11] IN 1 _C	IN 2 _B [4 11] IN 1 _C
IN 1 _B [5	10	l out _c	IN 1	вС	5	10] оит _с	in 3 _b [5	10] оит _с	in 3 _b [5 10] оит _с
IN 2 _B [6	9] IN 2 _C	IN 2	в С	6	9] IN 2 _C	out _b [6	9] OUT _A	out _b [6 9] OUT _A
v _{ss} [7	8	IN 1 _C	V _S	s C	7	8] IN 1 _C	v _{ss} [7	8	IN 3 _A	v _{ss} [7 8	I IN 3 _A

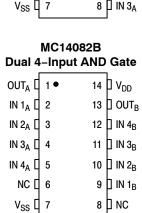
Quad	MC14 2–Inp		Gate	Triple	M(3-1
IN 1 _A [1•	14] v _{dd}	in 1 _a [1 •
IN 2 _A [2	13] IN 2 _D	IN 2 _A [2
OUT _A [3	12] IN 1 _D	IN 1 _B [3
out _b [4	11] OUT _D	IN 2 _B [4
IN 1 _B [5	10] OUT _C	in 3 _b [5
IN 2 _B [6	9] IN 2 _C	ουτ _β [6
v _{ss} [7	8	IN 1 _C	v _{ss} [7

MC14073B Triple 3-Input AND Gate								
in 1 _a C	1●	14] v _{dd}					
IN 2 _A [2	13] IN 3 _C					
IN 1 _B [3	12] IN 2 _C					
IN 2 _B [4	11] IN 1 _C					
IN 3 _b [5	10] OUT _C					
OUT _B [6	9] OUT _A					
v _{ss} [7	8] IN 3 _A					

-								
MC14081B Quad 2-Input AND Gate								
IN 1 _A [1•	14	D V _{DD}					
IN 2 _A [2	13] IN 2 _D					
OUT _A [3	12] IN 1 _D					
out _b [4	11]out _d					
IN 1 _B [5	10]0UT _C					

9] IN 2_C

8 I IN 1_C



NC = NO CONNECTION

IN 2_B [6

V_{SS} [7

ELECTRICAL CHARACTERISTICS	(Voltages Referenced to V _{SS})
-----------------------------------	---

			– 55°C			25°C	125°C			
Characteristic	Symbol	V _{DD} Vdc	Min	Max	Min	Typ (Note 2)	Max	Min	Мах	Unit
Output Voltage "0" Level V _{in} = V _{DD} or 0	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
"1" Level V _{in} = 0 or V _{DD}	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
	VIL	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 ($V_O = 0.5 \text{ or } 4.5 \text{ Vdc}$) ($V_O = 1.0 \text{ or } 9.0 \text{ Vdc}$) ($V_O = 1.5 \text{ or } 13.5 \text{ Vdc}$)	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
$\begin{array}{l} \text{Output Drive Current} \\ (\text{V}_{\text{OH}} = 2.5 \ \text{Vdc}) & \text{Source} \\ (\text{V}_{\text{OH}} = 4.6 \ \text{Vdc}) \\ (\text{V}_{\text{OH}} = 9.5 \ \text{Vdc}) \\ (\text{V}_{\text{OH}} = 13.5 \ \text{Vdc}) \end{array}$	I _{OH}	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
$\begin{array}{ll} (V_{OL} = 0.4 \ \text{Vdc}) & \text{Sink} \\ (V_{OL} = 0.5 \ \text{Vdc}) & \\ (V_{OL} = 1.5 \ \text{Vdc}) & \end{array}$	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	- - -	0.25 0.5 1.0		0.0005 0.0010 0.0015	0.25 0.5 1.0		7.5 15 30	μAdc
Total Supply Current (Notes 3, 4) (Dynamic plus Quiescent, Per Gate, C _L = 50 pF)	Ι _Τ	5.0 10 15		-	$I_{T} = (0.1)$	3 μA/kHz) f - 6 μA/kHz) f - 9 μA/kHz) f -	⊦ I _{DD} /N		-	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.

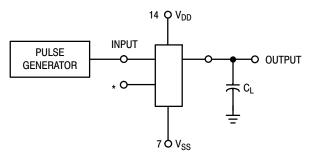
4. To calculate total supply current at loads other than 50 pF: $I_T(C_L) = I_T(50 \text{ pF}) + (C_L - 50) \text{ Vfk}$ where: I_T is in μ A (per package), C_L in pF, V = (V_{DD} - V_{SS}) in volts, f in kHz is input frequency, and k = 0.001 x the number of exercised gates per package.

B-SERIES GATE SWITCHING TIMES

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

Characteristic	Symbol	V _{DD} Vdc	Min	Typ (Note 6)	Мах	Unit
Output Rise Time, All B-Series Gates $t_{TLH} = (1.35 \text{ ns/pF}) C_L + 33 \text{ ns}$ $t_{TLH} = (0.60 \text{ ns/pF}) C_L + 20 \text{ ns}$ $t_{TLH} = (0.40 \text{ ns/PF}) C_L + 20 \text{ ns}$	t _{TLH}	5.0 10 15	- - -	100 50 40	200 100 80	ns
Output Fall Time, All B-Series Gates $t_{THL} = (1.35 \text{ ns/pF}) C_L + 33 \text{ ns}$ $t_{THL} = (0.60 \text{ ns/pF}) C_L + 20 \text{ ns}$ $t_{THL} = (0.40 \text{ ns/pF}) C_L + 20 \text{ ns}$	t _{THL}	5.0 10 15	- - -	100 50 40	200 100 80	ns
$\begin{array}{l} \mbox{Propagation Delay Time} \\ \mbox{MC14001B, MC14011B only} \\ t_{PLH}, t_{PHL} = (0.90 \mbox{ ns/pF}) \ C_L + 80 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.36 \mbox{ ns/pF}) \ C_L + 32 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.26 \mbox{ ns/pF}) \ C_L + 27 \mbox{ ns} \\ \mbox{All Other 2, 3, and 4 Input Gates} \\ t_{PLH}, t_{PHL} = (0.90 \mbox{ ns/pF}) \ C_L + 115 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.36 \mbox{ ns/pF}) \ C_L + 47 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.26 \mbox{ ns/pF}) \ C_L + 37 \mbox{ ns} \\ \mbox{8-Input Gates} \ (MC14068B, MC14078B) \\ t_{PLH}, t_{PHL} = (0.36 \mbox{ ns/pF}) \ C_L + 155 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.36 \mbox{ ns/pF}) \ C_L + 62 \mbox{ ns} \\ t_{PLH}, t_{PHL} = (0.26 \mbox{ ns/pF}) \ C_L + 47 \mbox{ ns} \\ \end{tabular}$	tplh, tphl	5.0 10 15 5.0 10 15 5.0 10 15		125 50 40 160 65 50 200 80 60	250 100 80 130 130 100 350 150 110	ns

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



*All unused inputs of AND, NAND gates must be connected to $V_{DD}.$ All unused inputs of OR, NOR gates must be connected to $V_{SS}.$

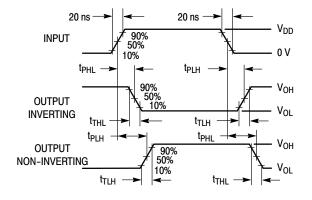
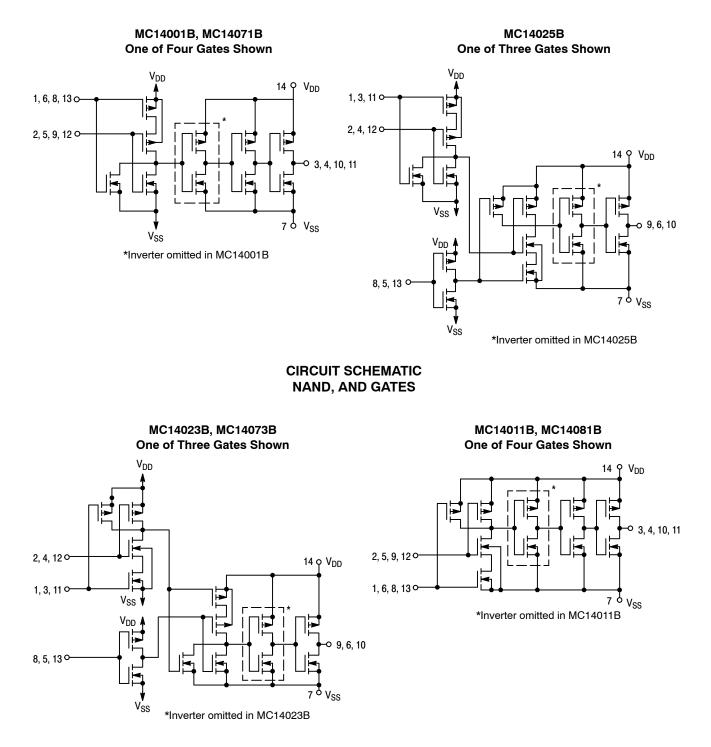
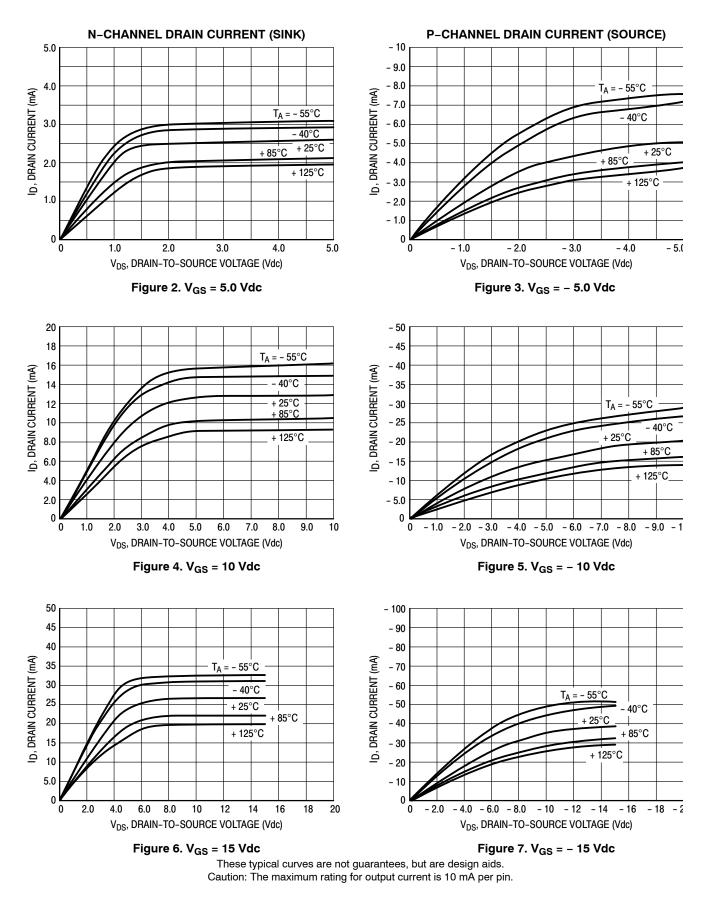


Figure 1. Switching Time Test Circuit and Waveforms

CIRCUIT SCHEMATIC NOR, OR GATES



TYPICAL B-SERIES GATE CHARACTERISTICS



TYPICAL B-SERIES GATE CHARACTERISTICS (CONT'D)

VOLTAGE TRANSFER CHARACTERISTICS

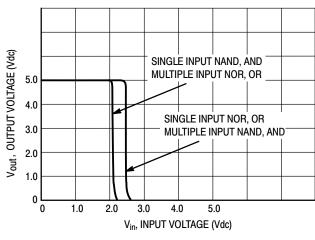


Figure 8. V_{DD} = 5.0 Vdc

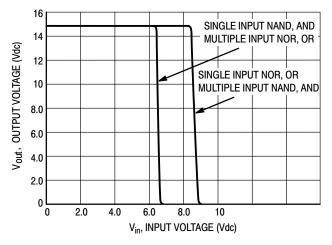


Figure 10. V_{DD} = 15 Vdc

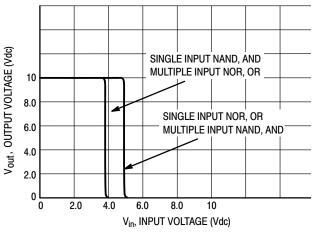


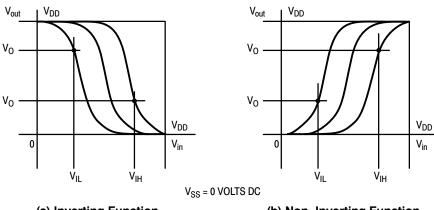
Figure 9. V_{DD} = 10 Vdc

DC NOISE MARGIN

The DC noise margin is defined as the input voltage range from an ideal "1" or "0" input level which does not produce output state change(s). The typical and guaranteed limit values of the input values V_{IL} and V_{IH} for the output(s) to be at a fixed voltage V_O are given in the Electrical Characteristics table. V_{IL} and V_{IH} are presented graphically in Figure 11.

Guaranteed minimum noise margins for both the "1" and "0" levels =

1.0 V with a 5.0 V supply 2.0 V with a 10.0 V supply 2.5 V with a 15.0 V supply





(b) Non–Inverting Function

Figure 11. DC Noise Immunity

ORDERING INFORMATION

Device	Package	Shipping [†]	
MC14001BDG	SOIC-14		
NLV14001BDG*	(Pb-Free)	55 Units / Rail	
MC14001BDR2G	SOIC-14		
NLV14001BDR2G*	(Pb-Free) 2500 Units / Ta TSSOP-14		
MC14001BDTR2G		2500 Units / Tape & Reel	
NLV14001BDTR2G*	(Pb-Free)		
MC14001BFELG	SOEIAJ-14 (Pb-Free)	2000 Units / Tape & Reel	

MC14011BDG	SOIC-14	55 Units / Rail	
NLV14011BDG*	(Pb-Free)		
MC14011BDR2G	SOIC-14		
NLV14011BDR2G*	(Pb-Free)	2500 Lipite / Tapa & Paal	
MC14011BDTR2G	TSSOP-14	2500 Units / Tape & Reel	
NLV14011BDTR2G*	(Pb-Free)		
MC14011BFG		50 Units / Rail	
MC14011BFELG		2000 Units / Tape & Reel	

MC14023BDG	SOIC-14 (Pb-Free)	55 Units / Rail	
MC14023BDR2G	SOIC-14	2500 Units / Tape & Reel	
NLV14023BDR2G*	(Pb-Free)	2500 Onits / Tape & Neel	
MC14023BFELG	SOEIAJ-14 (Pb-Free)	2000 Units / Tape & Reel	

MC14025BDG	SOIC-14	
NLV14025BDG*	(Pb-Free)	55 Units / Rail
MC14025BDR2G	SOIC-14	0500 Linita / Tana & Daal
NLV14025BDR2G*	(Pb-Free)	2500 Units / Tape & Reel

MC14071BDG	SOIC-14	55 Units / Rail	
NLV14071BDG*	(Pb-Free)		
MC14071BDR2G	SOIC-14	2500 Units / Tape & Reel	
NLV14071BDR2G*	(Pb–Free)	2300 Units / Tape & neer	
MC14071BDTG		96 Units per Rail	
MC14071BDTR2G	TSSOP-14 (Pb-Free)	2500 Lipite / Tapa & Baal	
NLV14071BDTR2G*		2500 Units / Tape & Reel	

MC14073BDG	SOIC-14 (Pb-Free)	55 Units / Rail
MC14073BDR2G	SOIC-14 (Pb-Free)	2500 Units / Tape & Reel

ORDERING INFORMATION (continued)

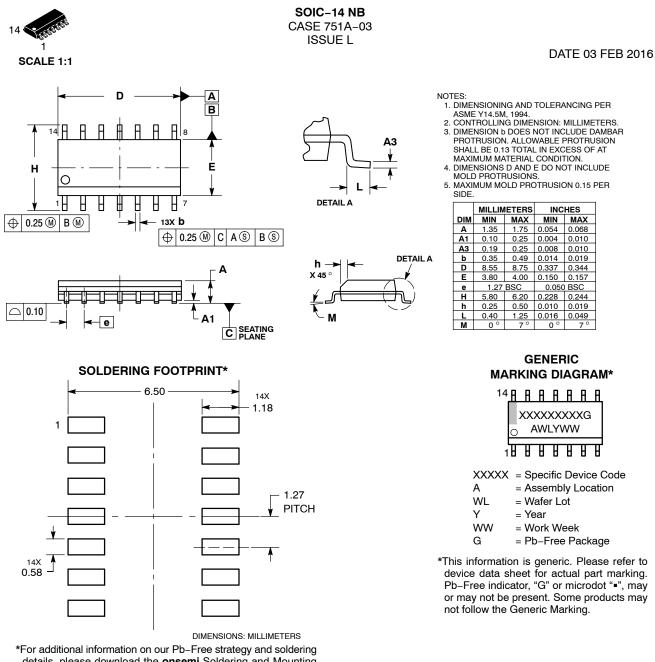
Device	Package	Shipping [†]	
MC14081BDG	SOIC-14		
NLV14081BDG*	(Pb-Free)	55 Units / Rail	
MC14081BDR2G	SOIC-14		
NLV14081BDR2G*	(Pb-Free)		
MC14081BDTR2G	TSSOP-14	2500 Units / Tape & Reel	
NLV14081BDTR2G*	(Pb-Free)		

MC14082BDG		55 Units / Rail
NLV14082BDG*	SOIC-14 (Pb-Free)	55 Units / Hall
MC14082BDR2G		2500 Units / 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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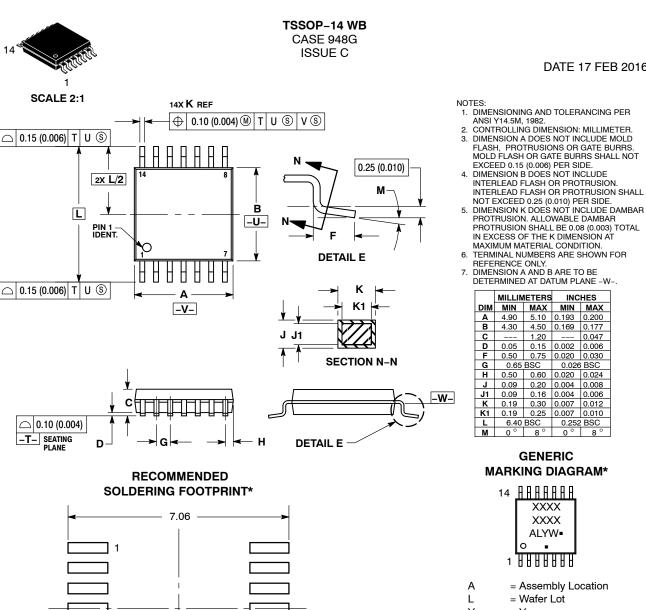
STYLE 1: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. NO CONNECTION 5. ANODE/CATHODE 6. NO CONNECTION 7. ANODE/CATHODE 8. ANODE/CATHODE 9. ANODE/CATHODE 10. NO CONNECTION 11. ANODE/CATHODE 12. ANODE/CATHODE 13. NO CONNECTION 14. COMMON ANODE	STYLE 2: CANCELLED	STYLE 3: PIN 1. NO CONNECTION 2. ANODE 3. ANODE 4. NO CONNECTION 5. ANODE 6. NO CONNECTION 7. ANODE 8. ANODE 9. ANODE 10. NO CONNECTION 11. ANODE 12. ANODE 13. NO CONNECTION 14. COMMON CATHODE	STYLE 4: PIN 1. NO CONNECTION 2. CATHODE 3. CATHODE 4. NO CONNECTION 5. CATHODE 6. NO CONNECTION 7. CATHODE 8. CATHODE 10. NO CONNECTION 11. CATHODE 12. CATHODE 13. NO CONNECTION 14. COMMON ANODE
STYLE 5: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. NO CONNECTION 7. COMMON ANODE 8. COMMON CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. ANODE/CATHODE 12. ANODE/CATHODE 13. NO CONNECTION 14. COMMON ANODE	STYLE 6: PIN 1. CATHODE 2. CATHODE 3. CATHODE 4. CATHODE 5. CATHODE 7. CATHODE 8. ANODE 9. ANODE 10. ANODE 11. ANODE 12. ANODE 13. ANODE 14. ANODE	STYLE 7: PIN 1. ANODE/CATHODE 2. COMMON CATHODE 3. COMMON CATHODE 4. ANODE/CATHODE 5. ANODE/CATHODE 6. ANODE/CATHODE 8. ANODE/CATHODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. COMMON CATHODE 12. COMMON CATHODE 13. ANODE/CATHODE 14. ANODE/CATHODE 14. ANODE/CATHODE	STYLE 8: PIN 1. COMMON CATHODE 2. ANODE/CATHODE 3. ANODE/CATHODE 4. NO CONNECTION 5. ANODE/CATHODE 6. ANODE/CATHODE 7. COMMON ANODE 8. COMMON ANODE 9. ANODE/CATHODE 10. ANODE/CATHODE 11. NO CONNECTION 12. ANODE/CATHODE 13. ANODE/CATHODE 14. COMMON CATHODE

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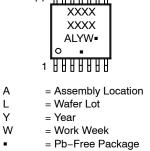
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MECHANICAL CASE OUTLINE PACKAGE DIMENSIONS



MARKING DIAGRAM*



(Note: Microdot may be in either location) *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.

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Techniques Reference Manual, SOLDERRM/D.

*For additional information on our Pb-Free strategy and soldering

details, please download the onsemi Soldering and Mounting

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