



**THE DATASHEET OF
MC14011BDG**



MC14001B Series

B-Suffix Series CMOS Gates

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

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 |
| P_D | Power Dissipation, per Package (Note 1) | 500 | mW |
| T_A | Ambient Temperature Range | -55 to +125 | $^{\circ}C$ |
| T_{stg} | Storage Temperature Range | -65 to +150 | $^{\circ}C$ |
| T_L | Lead Temperature (8-Second Soldering) | 260 | $^{\circ}C$ |
| 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/ $^{\circ}C$ From 65 $^{\circ}C$ To 125 $^{\circ}C$

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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SOIC-14
D SUFFIX
CASE 751A

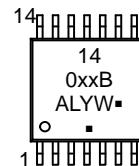


TSSOP-14
DT SUFFIX
CASE 948G

MARKING DIAGRAMS



SOIC-14



TSSOP-14

- xx = Specific Device Code
- 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 in the package dimensions section on page 8 of this data sheet.

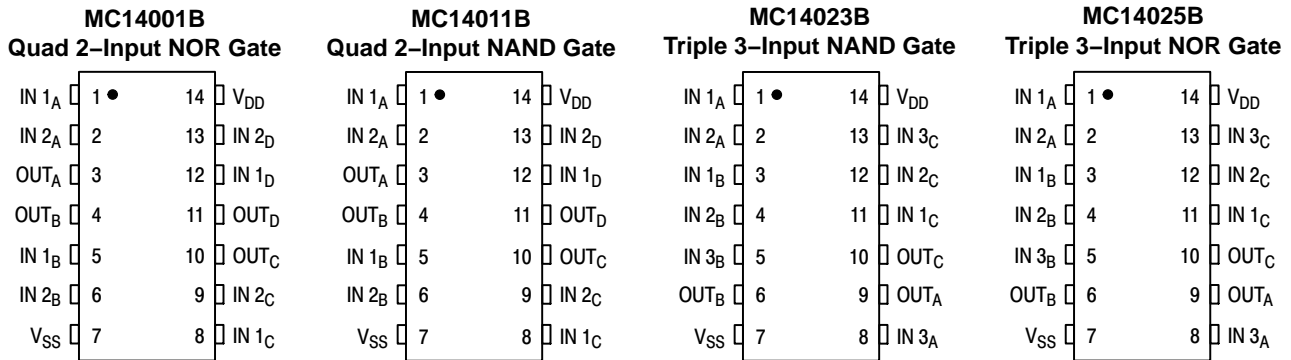
MC14001B Series

LOGIC DIAGRAMS



V_{DD} = PIN 14
 V_{SS} = PIN 7
 FOR ALL DEVICES

PIN ASSIGNMENTS



NC = NO CONNECTION

MC14001B Series

ELECTRICAL CHARACTERISTICS (Voltages Referenced to V_{SS})

| Characteristic | Symbol | V _{DD} Vdc | - 55°C | | 25°C | | | 125°C | | Unit |
|--|------------------------------|------------------------|--|------|-------|-----------------|------|-------|------|------|
| | | | Min | Max | Min | Typ (Note 2) | Max | Min | Max | |
| Output Voltage V _{in} = V _{DD} or 0 V _{in} = 0 or V _{DD} | "0" Level V _{OL} | 5.0 | - | 0.05 | - | 0 | 0.05 | - | 0.05 | Vdc |
| | | 10 | - | 0.05 | - | 0 | 0.05 | - | 0.05 | |
| | | 15 | - | 0.05 | - | 0 | 0.05 | - | 0.05 | |
| | "1" Level V _{OH} | 5.0 | 4.95 | - | 4.95 | 5.0 | - | 4.95 | - | Vdc |
| | | 10 | 9.95 | - | 9.95 | 10 | - | 9.95 | - | |
| | | 15 | 14.95 | - | 14.95 | 15 | - | 14.95 | - | |
| 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) (V _O = 0.5 or 4.5 Vdc) (V _O = 1.0 or 9.0 Vdc) (V _O = 1.5 or 13.5 Vdc) | "0" Level V _{IL} | 5.0 | - | 1.5 | - | 2.25 | 1.5 | - | 1.5 | Vdc |
| | | 10 | - | 3.0 | - | 4.50 | 3.0 | - | 3.0 | |
| | | 15 | - | 4.0 | - | 6.75 | 4.0 | - | 4.0 | |
| | "1" Level V _{IH} | 5.0 | 3.5 | - | 3.5 | 2.75 | - | 3.5 | - | Vdc |
| | | 10 | 7.0 | - | 7.0 | 5.50 | - | 7.0 | - | |
| | | 15 | 11 | - | 11 | 8.25 | - | 11 | - | |
| Output Drive Current (V _{OH} = 2.5 Vdc) (V _{OH} = 4.6 Vdc) (V _{OH} = 9.5 Vdc) (V _{OH} = 13.5 Vdc) (V _{OL} = 0.4 Vdc) (V _{OL} = 0.5 Vdc) (V _{OL} = 1.5 Vdc) | Source I _{OH} | 5.0 | -3.0 | - | -2.4 | -4.2 | - | -1.7 | - | mAdc |
| | | 5.0 | -0.64 | - | -0.51 | -0.88 | - | -0.36 | - | |
| | | 10 | -1.6 | - | -1.3 | -2.25 | - | -0.9 | - | |
| | | 15 | -4.2 | - | -3.4 | -8.8 | - | -2.4 | - | |
| | Sink I _{OL} | 5.0 | 0.64 | - | 0.51 | 0.88 | - | 0.36 | - | mAdc |
| | | 10 | 1.6 | - | 1.3 | 2.25 | - | 0.9 | - | |
| | | 15 | 4.2 | - | 3.4 | 8.8 | - | 2.4 | - | |
| | | | | | | | | | | |
| Input Current | I _{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 | - | 0.25 | - | 0.0005 | 0.25 | - | 7.5 | µAdc |
| | | 10 | - | 0.5 | - | 0.0010 | 0.5 | - | 15 | |
| | | 15 | - | 1.0 | - | 0.0015 | 1.0 | - | 30 | |
| Total Supply Current (Notes 3, 4) (Dynamic plus Quiescent, Per Gate, C _L = 50 pF) | I _T | 5.0 | I _T = (0.3 µA/kHz) f + I _{DD} /N | | | | | | | µAdc |
| | | 10 | I _T = (0.6 µA/kHz) f + I _{DD} /N | | | | | | | |
| | | 15 | I _T = (0.9 µA/kHz) f + I _{DD} /N | | | | | | | |

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.
3. 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 µA (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.

MC14001B Series

B-SERIES GATE SWITCHING TIMES

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

| Characteristic | Symbol | V_{DD} Vdc | Min | Typ (Note 6) | Max | 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 |
| Propagation Delay Time MC14001B, MC14011B only $t_{PLH}, t_{PHL} = (0.90 \text{ ns/pF}) C_L + 80 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.36 \text{ ns/pF}) C_L + 32 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.26 \text{ ns/pF}) C_L + 27 \text{ ns}$ All Other 2, 3, and 4 Input Gates $t_{PLH}, t_{PHL} = (0.90 \text{ ns/pF}) C_L + 115 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.36 \text{ ns/pF}) C_L + 47 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.26 \text{ ns/pF}) C_L + 37 \text{ ns}$ 8-Input Gates (MC14068B, MC14078B) $t_{PLH}, t_{PHL} = (0.90 \text{ ns/pF}) C_L + 155 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.36 \text{ ns/pF}) C_L + 62 \text{ ns}$ $t_{PLH}, t_{PHL} = (0.26 \text{ ns/pF}) C_L + 47 \text{ ns}$ | t_{PLH}, t_{PHL} | 5.0 10 15 5.0 10 15 5.0 10 15 | – – – – – – – – – | 125 50 40 160 65 50 200 80 60 | 250 100 80 300 130 100 350 150 110 | 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.



*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} .

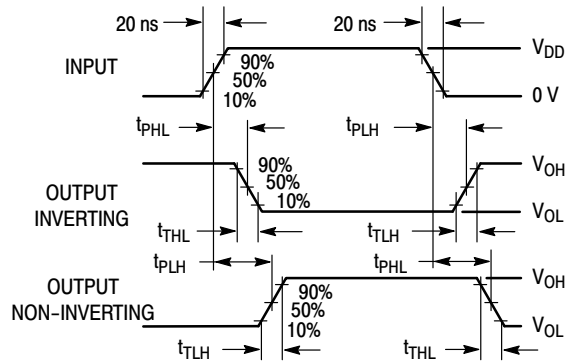


Figure 1. Switching Time Test Circuit and Waveforms

MC14001B Series

CIRCUIT SCHEMATIC NOR, OR GATES

MC14001B, MC14071B
One of Four Gates Shown



*Inverter omitted in MC14001B

MC14025B
One of Three Gates Shown



*Inverter omitted in MC14025B

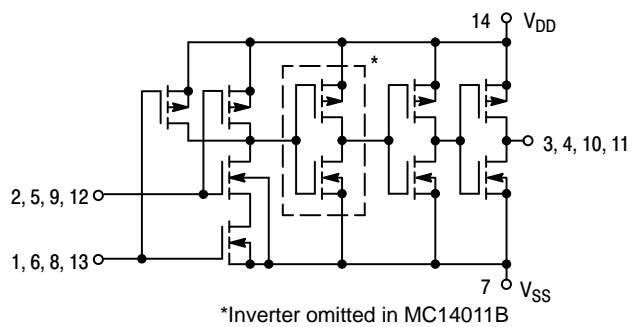
CIRCUIT SCHEMATIC NAND, AND GATES

MC14023B, MC14073B
One of Three Gates Shown



*Inverter omitted in MC14023B

MC14011B, MC14081B
One of Four Gates Shown



*Inverter omitted in MC14011B

MC14001B Series

TYPICAL B-SERIES GATE CHARACTERISTICS

N-CHANNEL DRAIN CURRENT (SINK)

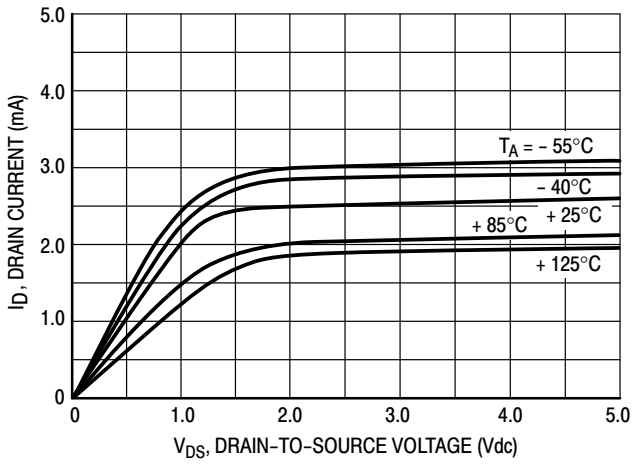


Figure 2. $V_{GS} = 5.0 \text{ Vdc}$

P-CHANNEL DRAIN CURRENT (SOURCE)

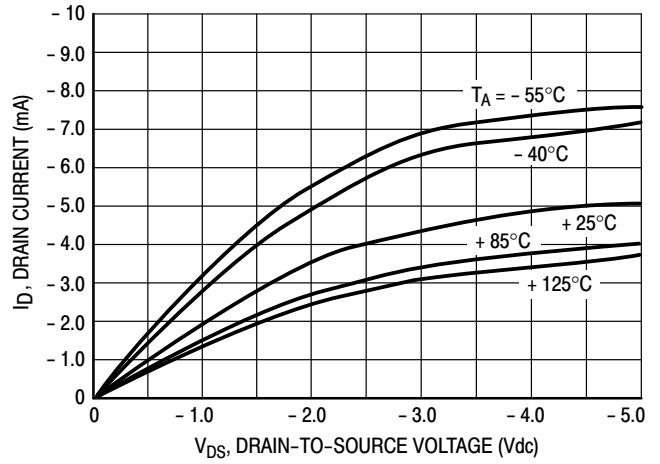


Figure 3. $V_{GS} = -5.0 \text{ Vdc}$



Figure 4. $V_{GS} = 10 \text{ Vdc}$



Figure 5. $V_{GS} = -10 \text{ Vdc}$

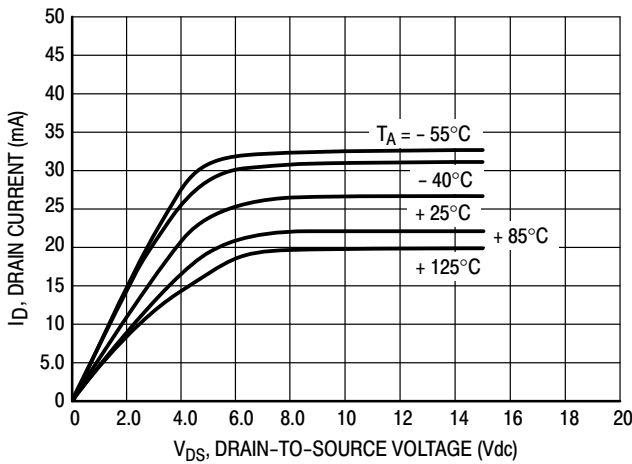


Figure 6. $V_{GS} = 15 \text{ Vdc}$

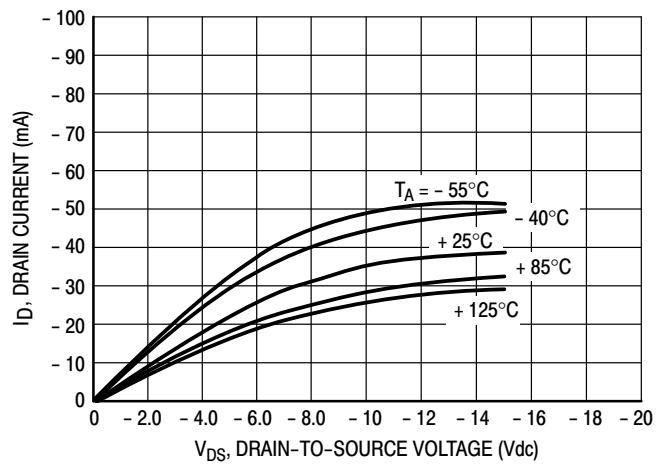


Figure 7. $V_{GS} = -15 \text{ Vdc}$

These typical curves are not guarantees, but are design aids.
Caution: The maximum rating for output current is 10 mA per pin.

MC14001B Series

TYPICAL B-SERIES GATE CHARACTERISTICS (cont'd)

VOLTAGE TRANSFER CHARACTERISTICS



Figure 8. $V_{DD} = 5.0 \text{ Vdc}$



Figure 9. $V_{DD} = 10 \text{ Vdc}$



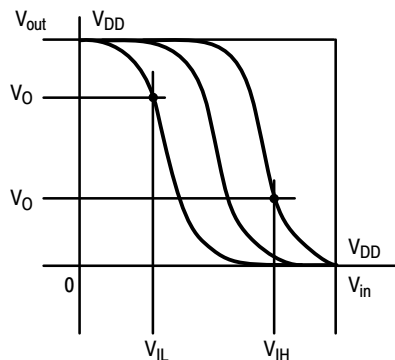
Figure 10. $V_{DD} = 15 \text{ Vdc}$

DC NOISE MARGIN

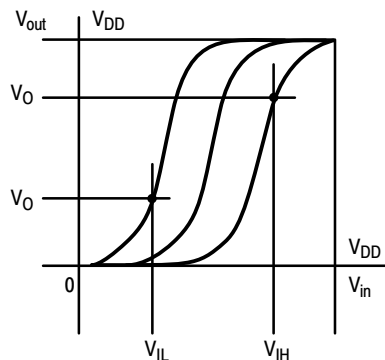
The DC noise margin is defined as the input voltage range from an ideal “1” or “0” input level which does not produce output state change(s). The typical and guaranteed limit values of the input values V_{IL} and V_{IH} for the output(s) to be at a fixed voltage V_O are given in the Electrical Characteristics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



(a) Inverting Function



(b) Non-Inverting Function

Figure 11. DC Noise Immunity

MC14001B Series

ORDERING INFORMATION

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

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

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

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

| | | |
|-----------------|-----------------------|--------------------------|
| MC14071BDG | SOIC-14 (Pb-Free) | 55 Units / Rail |
| NLV14071BDG* | | |
| MC14071BDR2G | SOIC-14 (Pb-Free) | 2500 Units / Tape & Reel |
| NLV14071BDR2G* | | |
| MC14071BDTG | TSSOP-14 (Pb-Free) | 96 Units per Rail |
| MC14071BDTR2G | | 2500 Units / Tape & Reel |
| NLV14071BDTR2G* | | |

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

MC14001B Series

ORDERING INFORMATION (continued)

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

| | | |
|--------------|----------------------|--------------------------|
| MC14082BDG | SOIC-14 (Pb-Free) | 55 Units / Rail |
| NLV14082BDG* | | |
| 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.

MC14001B Series

PACKAGE DIMENSIONS

TSSOP-14
CASE 948G
ISSUE B



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSION A DOES NOT INCLUDE MOLD FLASH, PROTRUSIONS OR GATE BURRS. MOLD FLASH OR GATE BURRS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
5. DIMENSION K DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE K DIMENSION AT MAXIMUM MATERIAL CONDITION.
6. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
7. DIMENSION A AND B ARE TO BE DETERMINED AT DATUM PLANE -W-.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 4.90 | 5.10 | 0.193 | 0.200 |
| B | 4.30 | 4.50 | 0.169 | 0.177 |
| C | --- | 1.20 | --- | 0.047 |
| D | 0.05 | 0.15 | 0.002 | 0.006 |
| F | 0.50 | 0.75 | 0.020 | 0.030 |
| G | 0.65 BSC | | 0.026 BSC | |
| H | 0.50 | 0.60 | 0.020 | 0.024 |
| J | 0.09 | 0.20 | 0.004 | 0.008 |
| J1 | 0.09 | 0.16 | 0.004 | 0.006 |
| K | 0.19 | 0.30 | 0.007 | 0.012 |
| K1 | 0.19 | 0.25 | 0.007 | 0.010 |
| L | 6.40 BSC | | 0.252 BSC | |
| M | 0° | 8° | 0° | 8° |

SOLDERING FOOTPRINT*

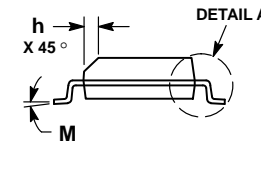


*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

MC14001B Series

PACKAGE DIMENSIONS

SOIC-14 NB CASE 751A-03 ISSUE K

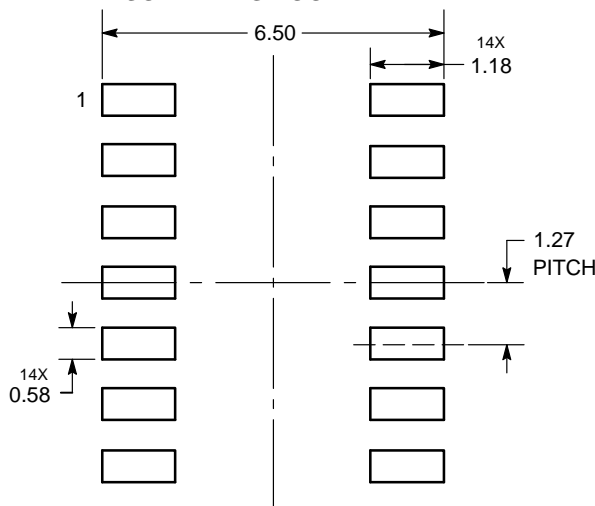


NOTES:

1. DIMENSIONING AND TOLERANCING PER ASME Y14.5M, 1994.
2. CONTROLLING DIMENSION: MILLIMETERS.
3. DIMENSION b DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF AT MAXIMUM MATERIAL CONDITION.
4. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSIONS.
5. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 1.35 | 1.75 | 0.054 | 0.068 |
| A1 | 0.10 | 0.25 | 0.004 | 0.010 |
| A3 | 0.19 | 0.25 | 0.008 | 0.010 |
| b | 0.35 | 0.49 | 0.014 | 0.019 |
| D | 8.55 | 8.75 | 0.337 | 0.344 |
| E | 3.80 | 4.00 | 0.150 | 0.157 |
| e | 1.27 BSC | | 0.050 BSC | |
| H | 5.80 | 6.20 | 0.228 | 0.244 |
| h | 0.25 | 0.50 | 0.010 | 0.019 |
| L | 0.40 | 1.25 | 0.016 | 0.049 |
| M | 0° | 7° | 0° | 7° |

SOLDERING FOOTPRINT*



DIMENSIONS: MILLIMETERS

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

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- ✓ Global Sourcing Solution
- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
- ✓ Excess Inventory Management