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## MM74HC540 • MM74HC541

### Inverting Octal 3-STATE Buffer • Octal 3-STATE Buffer

#### General Description

The MM74HC540 and MM74HC541 3-STATE buffers utilize advanced silicon-gate CMOS technology. They possess high drive current outputs which enable high speed operation even when driving large bus capacitances. These circuits achieve speeds comparable to low power Schottky devices, while retaining the advantage of CMOS circuitry, i.e., high noise immunity, and low power consumption. Both devices have a fanout of 15 LS-TTL equivalent inputs.

The MM74HC540 is an inverting buffer and the MM74HC541 is a non-inverting buffer. The 3-STATE control gate operates as a two-input NOR such that if either G1 or G2 are HIGH, all eight outputs are in the high-impedance state.

In order to enhance PC board layout, the MM74HC540 and MM74HC541 offers a pinout having inputs and outputs on opposite sides of the package. All inputs are protected from damage due to static discharge by diodes to  $V_{CC}$  and ground.

#### Features

- Typical propagation delay: 12 ns
- 3-STATE outputs for connection to system buses
- Wide power supply range: 2–6V
- Low quiescent current: 80  $\mu$ A maximum (74HC Series)
- Output current: 6 mA

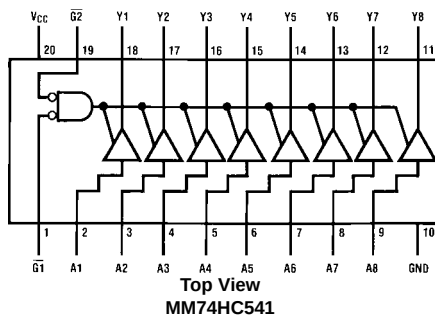
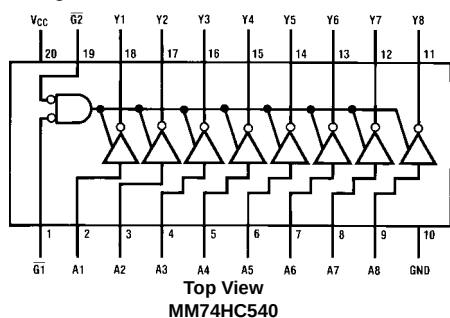
#### Ordering Code:

| Order Number | Package Number | Package Description                                                         |
|--------------|----------------|-----------------------------------------------------------------------------|
| MM74HC540WM  | M20B           | 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide  |
| MM74HC540SJ  | M20D           | 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide               |
| MM74HC540MTC | MTC20          | 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide |
| MM74HC540N   | N20A           | 20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide      |
| MM74HC541WM  | M20B           | 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide  |
| MM74HC541SJ  | M20D           | 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide               |
| MM74HC541MTC | MTC20          | 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide |
| MM74HC541N   | N20A           | 20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide      |

Devices also available in Tape and Reel. Specify by appending the suffix letter "X" to the ordering code.

#### Connection Diagrams

##### Pin Assignments for DIP, SOIC, SOP and TSSOP



**Absolute Maximum Ratings**(Note 1)

(Note 2)

|                                                  |                         |
|--------------------------------------------------|-------------------------|
| Supply Voltage ( $V_{CC}$ )                      | -0.5 to +7.0V           |
| DC Input Voltage ( $V_{IN}$ )                    | -1.5 to $V_{CC} + 1.5V$ |
| DC Output Voltage ( $V_{OUT}$ )                  | -0.5 to $V_{CC} + 0.5V$ |
| Clamp Diode Current ( $I_{CD}$ )                 | $\pm 20$ mA             |
| DC Output Current, per pin ( $I_{OUT}$ )         | $\pm 35$ mA             |
| DC $V_{CC}$ or GND Current, per pin ( $I_{CC}$ ) | $\pm 70$ mA             |
| Storage Temperature Range ( $T_{STG}$ )          | -65°C to +150°C         |
| Power Dissipation ( $P_D$ )                      |                         |
| (Note 3)                                         | 600 mW                  |
| S.O. Package only                                | 500 mW                  |
| Lead Temperature ( $T_L$ )                       |                         |
| (Soldering 10 seconds)                           | 260°C                   |

**Recommended Operating Conditions**

|                                                  | Min | Max      | Units |
|--------------------------------------------------|-----|----------|-------|
| Supply Voltage ( $V_{CC}$ )                      | 2   | 6        | V     |
| DC Input or Output Voltage ( $V_{IN}, V_{OUT}$ ) | 0   | $V_{CC}$ | V     |
| Operating Temperature Range ( $T_A$ )            | -40 | +85      | °C    |
| Input Rise or Fall Times ( $t_r, t_f$ )          |     |          |       |
| $V_{CC} = 2.0V$                                  |     | 1000     | ns    |
| $V_{CC} = 4.5V$                                  |     | 500      | ns    |
| $V_{CC} = 6.0V$                                  |     | 400      | ns    |

**Note 1:** Absolute Maximum Ratings are those values beyond which damage to the device may occur.

**Note 2:** Unless otherwise specified all voltages are referenced to ground.

**Note 3:** Power Dissipation temperature derating — plastic "N" package: -12 mW/°C from 65°C to 85°C.

**DC Electrical Characteristics** (Note 4)

| Symbol          | Parameter                              | Conditions                                                                                                                                  | V <sub>CC</sub> | T <sub>A</sub> = 25°C |                   | T <sub>A</sub> = −40 to 85°C | T <sub>A</sub> = −55 to 125°C | Units |   |
|-----------------|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-----------------------|-------------------|------------------------------|-------------------------------|-------|---|
|                 |                                        |                                                                                                                                             |                 | Typ                   | Guaranteed Limits |                              |                               |       |   |
| V <sub>IH</sub> | Minimum HIGH Level Input Voltage       |                                                                                                                                             | 2.0V            |                       | 1.5               | 1.5                          | 1.5                           | V     |   |
|                 |                                        |                                                                                                                                             | 4.5V            |                       | 3.15              | 3.15                         | 3.15                          | V     |   |
|                 |                                        |                                                                                                                                             | 6.0V            |                       | 4.2               | 4.2                          | 4.2                           | V     |   |
| V <sub>IL</sub> | Maximum LOW Level Input Voltage        |                                                                                                                                             | 2.0V            |                       | 0.5               | 0.5                          | 0.5                           | V     |   |
|                 |                                        |                                                                                                                                             | 4.5V            |                       | 1.35              | 1.35                         | 1.35                          | V     |   |
|                 |                                        |                                                                                                                                             | 6.0V            |                       | 1.8               | 1.8                          | 1.8                           | V     |   |
| V <sub>OH</sub> | Minimum HIGH Level Output Voltage      | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br> I <sub>OUT</sub>   ≤ 20 μA                                                         | 2.0V            | 2.0                   | 1.9               |                              | 1.9                           | V     |   |
|                 |                                        |                                                                                                                                             | 4.5V            | 4.5                   | 4.4               |                              | 4.4                           | V     |   |
|                 |                                        |                                                                                                                                             | 6.0V            | 6.0                   | 5.9               |                              | 5.9                           | V     |   |
|                 |                                        | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br> I <sub>OUT</sub>   ≤ 6.0 mA<br> I <sub>OUT</sub>   ≤ 7.8 mA                        | 4.5V            | 4.2                   | 3.98              |                              | 3.84                          | 3.7   | V |
|                 |                                        |                                                                                                                                             | 6.0V            | 5.7                   | 5.48              |                              | 5.34                          | 5.2   | V |
|                 |                                        |                                                                                                                                             |                 |                       |                   |                              |                               |       |   |
| V <sub>OL</sub> | Maximum LOW Level Output Voltage       | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br> I <sub>OUT</sub>   ≤ 20 μA                                                         | 2.0V            | 0                     | 0.1               |                              | 0.1                           | V     |   |
|                 |                                        |                                                                                                                                             | 4.5V            | 0                     | 0.1               |                              | 0.1                           | 0.1   | V |
|                 |                                        |                                                                                                                                             | 6.0V            | 0                     | 0.1               |                              | 0.1                           | 0.1   | V |
|                 |                                        | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub><br> I <sub>OUT</sub>   ≤ 6.0 mA<br> I <sub>OUT</sub>   ≤ 7.8 mA                        | 4.5V            | 0.2                   | 0.26              |                              | 0.33                          | 0.4   | V |
|                 |                                        |                                                                                                                                             | 6.0V            | 0.2                   | 0.26              |                              | 0.33                          | 0.4   | V |
|                 |                                        |                                                                                                                                             |                 |                       |                   |                              |                               |       |   |
| I <sub>IN</sub> | Maximum Input Current                  | V <sub>IN</sub> = V <sub>CC</sub> or GND                                                                                                    | 6.0V            |                       | ±0.1              | ±1.0                         | ±1.0                          | μA    |   |
| I <sub>OZ</sub> | Maximum 3-STATE Output Leakage Current | V <sub>IN</sub> = V <sub>IH</sub> or V <sub>IL</sub> , $\overline{\text{G}}$ = V <sub>IH</sub><br>V <sub>OUT</sub> = V <sub>CC</sub> or GND | 6.0V            |                       | ±0.5              | ±5                           | ±10                           | μA    |   |
| I <sub>CC</sub> | Maximum Quiescent Supply Current       | V <sub>IN</sub> = V <sub>CC</sub> or GND<br>I <sub>OUT</sub> = 0 μA                                                                         | 6.0V            |                       | 8.0               | 80                           | 160                           | μA    |   |

**Note 4:** For a power supply of  $5V \pm 10\%$  the worst case output voltages ( $V_{OH}$  and  $V_{OL}$ ) occur for HC at 4.5V. Thus the 4.5V values should be used when designing with this supply. Worst case  $V_{IH}$  and  $V_{IL}$  occur at  $V_{CC} = 5.5V$  and 4.5V respectively. (The  $V_{IH}$  value at 5.5V is 3.85V.) The worst case leakage current ( $I_{IN}$ ,  $I_{CC}$ , and  $I_{OZ}$ ) occur for CMOS at the higher voltage and so the 6.0V values should be used.

**AC Electrical Characteristics** $V_{CC} = 5V$ ,  $T_A = 25^\circ C$ ,  $t_r = t_f = 6\text{ ns}$ 

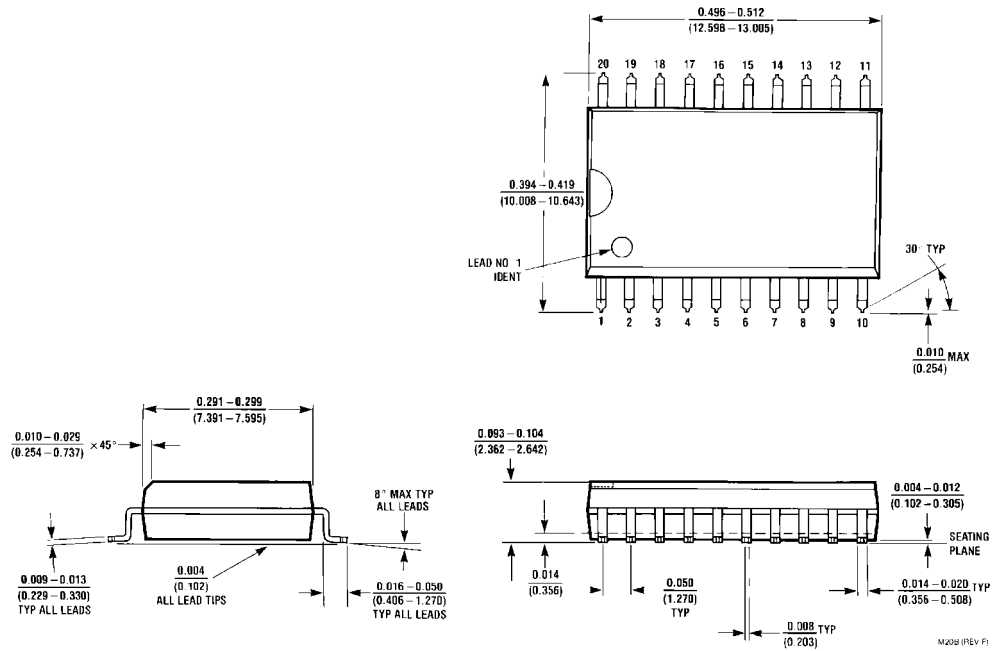
| Symbol                | Parameter                       | Conditions                                       | Typ | Guaranteed Limit | Units |
|-----------------------|---------------------------------|--------------------------------------------------|-----|------------------|-------|
| $t_{PHL}$ , $t_{PLH}$ | Maximum Propagation Delay (540) | $C_L = 45\text{ pF}$                             | 12  | 18               | ns    |
| $t_{PHL}$ , $t_{PLH}$ | Maximum Propagation Delay (541) | $C_L = 45\text{ pF}$                             | 14  | 20               | ns    |
| $t_{PZH}$ , $t_{PZL}$ | Maximum Output Enable Time      | $R_L = 1\text{ k}\Omega$<br>$C_L = 45\text{ pF}$ | 17  | 28               | ns    |
| $t_{PHZ}$ , $t_{PLZ}$ | Maximum Output Disable Time     | $R_L = 1\text{ k}\Omega$<br>$C_L = 5\text{ pF}$  | 15  | 25               | ns    |

**AC Electrical Characteristics** $V_{CC} = 2.0V$  to  $6.0V$ ,  $C_L = 50\text{ pF}$ ,  $t_r = t_f = 6\text{ ns}$  (unless otherwise specified)

| Symbol                              | Parameter                              | Conditions                                                           | V <sub>CC</sub> | T <sub>A</sub> = 25°C |                   | T <sub>A</sub> = -40 to 85°C | T <sub>A</sub> = -55 to 125°C | Units    |
|-------------------------------------|----------------------------------------|----------------------------------------------------------------------|-----------------|-----------------------|-------------------|------------------------------|-------------------------------|----------|
|                                     |                                        |                                                                      |                 | Typ                   | Guaranteed Limits |                              |                               |          |
| t <sub>PHL</sub> , t <sub>PLH</sub> | Maximum Propagation Delay (540)        | C <sub>L</sub> = 50 pF                                               | 2.0V            | 55                    | 100               | 126                          | 149                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 2.0V            | 83                    | 150               | 190                          | 224                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 4.5V            | 12                    | 20                | 25                           | 30                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 4.5V            | 22                    | 30                | 38                           | 45                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 6.0V            | 11                    | 17                | 21                           | 25                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 6.0V            | 18                    | 26                | 32                           | 38                            | ns       |
| t <sub>PHL</sub> , t <sub>PLH</sub> | Maximum Propagation Delay (541)        | C <sub>L</sub> = 50 pF                                               | 2.0V            | 58                    | 115               | 145                          | 171                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 2.0V            | 83                    | 165               | 208                          | 246                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 4.5V            | 14                    | 23                | 29                           | 34                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 4.5V            | 17                    | 33                | 42                           | 49                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 6.0V            | 11                    | 20                | 25                           | 29                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 6.0V            | 14                    | 28                | 35                           | 42                            | ns       |
| t <sub>PZH</sub> , t <sub>PZL</sub> | Maximum Output Enable Time             | R <sub>L</sub> = 1 kΩ                                                |                 |                       |                   |                              |                               |          |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 2.0V            | 75                    | 150               | 189                          | 224                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 2.0V            | 100                   | 200               | 252                          | 298                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 4.5V            | 15                    | 30                | 38                           | 45                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                                              | 4.5V            | 30                    | 40                | 50                           | 60                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 6.0V            | 13                    | 26                | 32                           | 38                            | ns       |
| t <sub>PHZ</sub> , t <sub>PLZ</sub> | Maximum Output Disable Time            | C <sub>L</sub> = 150 pF                                              | 6.0V            | 17                    | 34                | 43                           | 51                            | ns       |
|                                     |                                        | R <sub>L</sub> = 1 kΩ                                                | 2.0V            | 75                    | 150               | 189                          | 224                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                                               | 4.5V            | 15                    | 30                | 38                           | 45                            | ns       |
|                                     |                                        |                                                                      | 6.0V            | 13                    | 26                | 32                           | 38                            | ns       |
| t <sub>THL</sub> , t <sub>TLH</sub> | Maximum Output Rise and Fall Time      | C <sub>L</sub> = 50 pF                                               | 2.0V            | 25                    | 60                | 75                           | 90                            | ns       |
|                                     |                                        |                                                                      | 4.5V            | 7                     | 12                | 15                           | 18                            | ns       |
|                                     |                                        |                                                                      | 6.0V            | 6                     | 10                | 13                           | 15                            | ns       |
| C <sub>PD</sub>                     | Power Dissipation Capacitance (Note 5) | $\overline{G}$ = V <sub>IH</sub><br>$\overline{G}$ = V <sub>IL</sub> |                 | 10<br>50              |                   |                              |                               | pF<br>pF |
| C <sub>IN</sub>                     | Maximum Input Capacitance              |                                                                      |                 | 5                     | 10                | 10                           | 10                            | pF       |
| C <sub>OUT</sub>                    | Maximum Output Capacitance             |                                                                      |                 | 15                    | 20                | 20                           | 20                            | pF       |

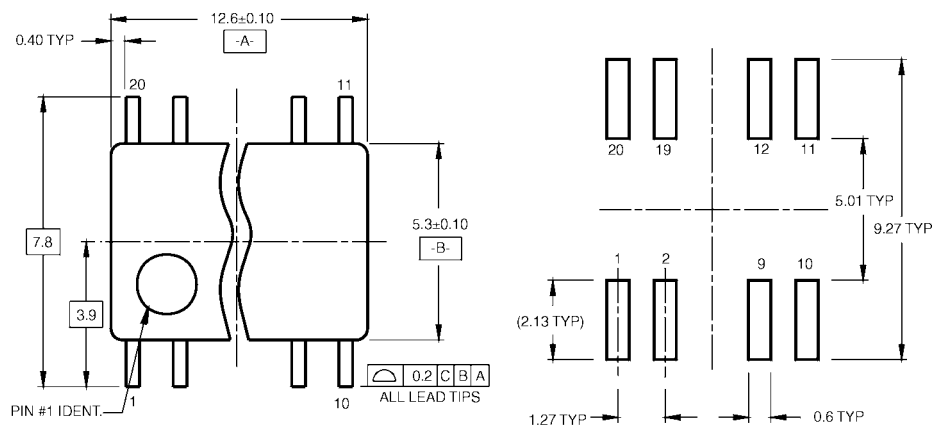
**Note 5:**  $C_{PD}$  determines the no load dynamic power consumption,  $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$ , and the no load dynamic current consumption,  $I_S = C_{PD} V_{CC} f + I_{CC}$ .

# Physical Dimensions inches (millimeters) unless otherwise noted

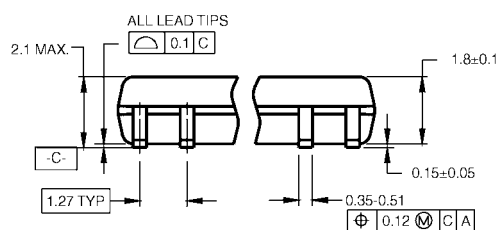


20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide  
Package Number M20B

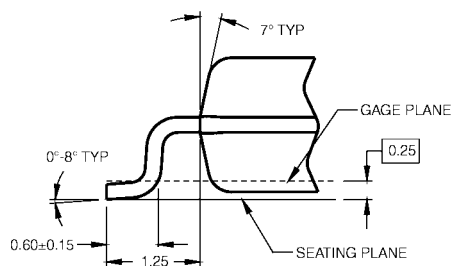
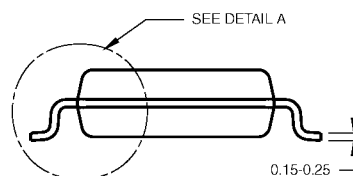
# Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



## LAND PATTERN RECOMMENDATION



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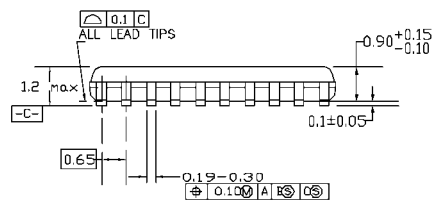
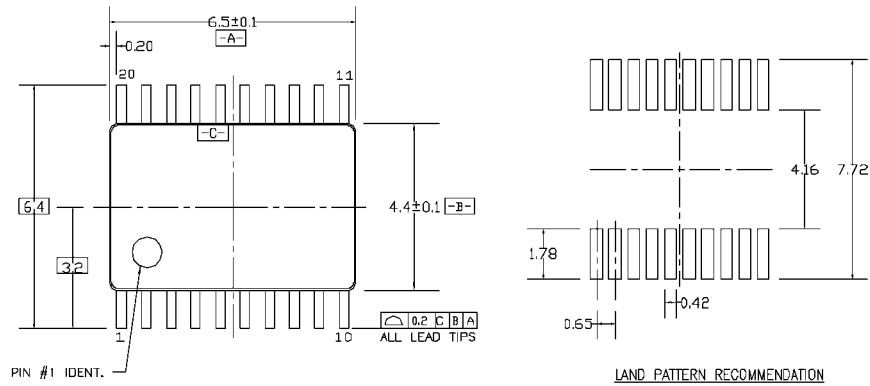
## DETAIL A

### NOTES:

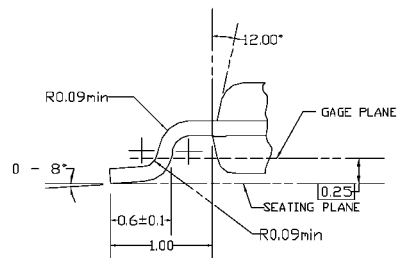
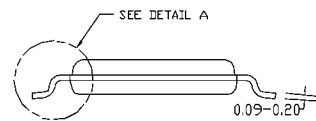
- CONFORMS TO EIAJ EDR-7320 REGISTRATION, ESTABLISHED IN DECEMBER, 1998.
- DIMENSIONS ARE IN MILLIMETERS.
- DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLD FLASH, AND TIE BAR EXTRUSIONS.

M20DRevB1

**20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide  
Package Number M20D**



DIMENSIONS ARE IN MILLIMETERS



DETAIL A

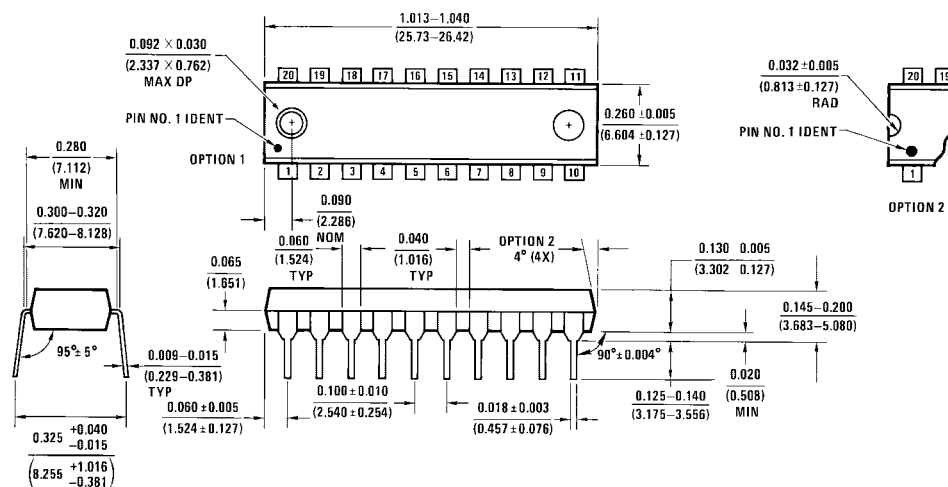
NOTES:

- A. CONFORMS TO JEDEC REGISTRATION MO-153, VARIATION AC,  
REF NOTE 6, DATE 7/93.
- B. DIMENSIONS ARE IN MILLIMETERS.
- C. DIMENSIONS ARE EXCLUSIVE OF BURRS, MOLDS FLASH,  
AND TIE BAR EXTRUSIONS.
- D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

MTC20REV D1

**20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide  
Package Number MTC20**

# Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide  
Package Number N20A

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Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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