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## MM74HC373

### 3-STATE Octal D-Type Latch

#### General Description

The MM74HC373 high speed octal D-type latches utilize advanced silicon-gate CMOS technology. They possess the high noise immunity and low power consumption of standard CMOS integrated circuits, as well as the ability to drive 15 LS-TTL loads. Due to the large output drive capability and the 3-STATE feature, these devices are ideally suited for interfacing with bus lines in a bus organized system.

When the LATCH ENABLE input is HIGH, the Q outputs will follow the D inputs. When the LATCH ENABLE goes LOW, data at the D inputs will be retained at the outputs until LATCH ENABLE returns HIGH again. When a high logic level is applied to the OUTPUT CONTROL input, all outputs go to a high impedance state, regardless of what signals are present at the other inputs and the state of the storage elements.

The 74HC logic family is speed, function, and pin-out compatible with the standard 74LS logic family. All inputs are protected from damage due to static discharge by internal diode clamps to  $V_{CC}$  and ground.

#### Features

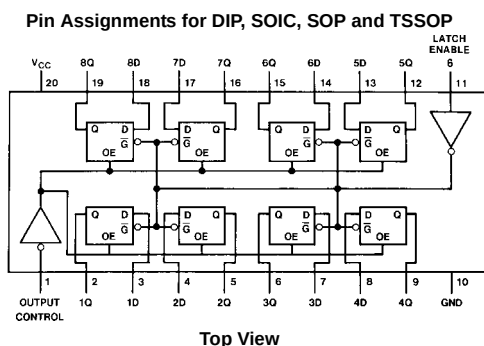
- Typical propagation delay: 18 ns
- Wide operating voltage range: 2 to 6 volts
- Low input current: 1  $\mu$ A maximum
- Low quiescent current: 80  $\mu$ A maximum (74 Series)
- Output drive capability: 15 LS-TTL loads

#### Ordering Code:

| Order Number | Package Number | Package Description                                                         |
|--------------|----------------|-----------------------------------------------------------------------------|
| MM74HC373WM  | M20B           | 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide  |
| MM74HC373SJ  | M20D           | 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide               |
| MM74HC373MTC | MTC20          | 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide |
| MM74HC373N   | 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 Diagram



#### Truth Table

| Output Control | Latch Enable | Data | 373 Output |
|----------------|--------------|------|------------|
| L              | H            | H    | H          |
| L              | H            | L    | L          |
| L              | L            | X    | $Q_0$      |
| H              | X            | X    | Z          |

H = HIGH Level

L = LOW Level

$Q_0$  = Level of output before steady-state input conditions were established.

Z = High Impedance

**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 ( $I_{IK}, I_{OK}$ )         | $\pm 20$ 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<br>( $V_{IN}, V_{OUT}$ )        | 0   | $V_{CC}$ | V     |
| Operating Temperature Range ( $T_A$ )                      | -40 | +85      | °C    |
| Input Rise or Fall Times<br>( $t_r, t_f$ ) $V_{CC} = 2.0V$ |     | 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**

| 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                          | 1.9  | V                             |  |       |
|                 |                                        |                                                                                                                          | 4.5V            | 4.5                   | 4.4               | 4.4                          | 4.4  | V                             |  |       |
|                 |                                        |                                                                                                                          | 6.0V            | 6.0                   | 5.9               | 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                          | 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> , OC = 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, Data to Q | $C_L = 45\text{ pF}$                             | 18  | 25               | ns    |
| $t_{PHL}$ , $t_{PLH}$ | Maximum Propagation Delay, LE to Q   | $C_L = 45\text{ pF}$                             | 21  | 30               | ns    |
| $t_{PZH}$ , $t_{PZL}$ | Maximum Output Enable Time           | $R_L = 1\text{ k}\Omega$<br>$C_L = 45\text{ pF}$ | 20  | 28               | ns    |
| $t_{PHZ}$ , $t_{PLZ}$ | Maximum Output Disable Time          | $R_L = 1\text{ k}\Omega$<br>$C_L = 5\text{ pF}$  | 18  | 25               | ns    |
| $t_S$                 | Minimum Set Up Time                  |                                                  |     | 5                | ns    |
| $t_H$                 | Minimum Hold Time                    |                                                  |     | 10               | ns    |
| $t_W$                 | Minimum Pulse Width                  |                                                  | 9   | 16               | ns    |

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

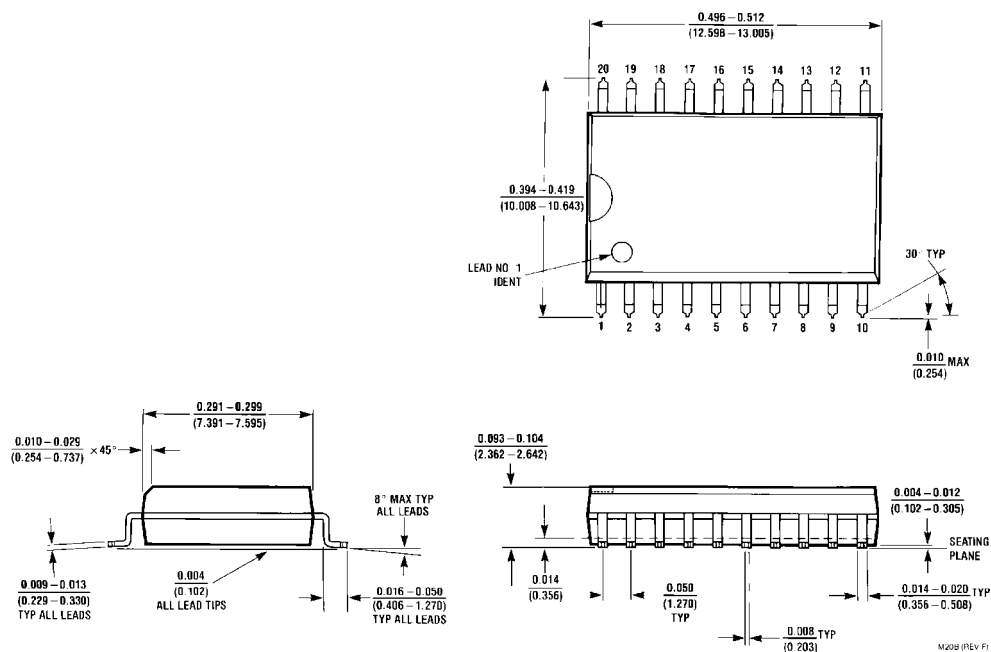
| Symbol                              | Parameter                              | Conditions                                      | V <sub>CC</sub> | T <sub>A</sub> = 25°C |                   | T <sub>A</sub> = −40 to 85°C | T <sub>A</sub> = −55 to 125°C | Units    |
|-------------------------------------|----------------------------------------|-------------------------------------------------|-----------------|-----------------------|-------------------|------------------------------|-------------------------------|----------|
|                                     |                                        |                                                 |                 | Typ                   | Guaranteed Limits |                              |                               |          |
| t <sub>PHL</sub> , t <sub>PLH</sub> | Maximum Propagation Delay, Data to Q   | C <sub>L</sub> = 50 pF                          | 2.0V            | 50                    | 150               | 188                          | 225                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 2.0V            | 80                    | 200               | 250                          | 300                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 4.5V            | 22                    | 30                | 37                           | 45                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 4.5V            | 30                    | 40                | 50                           | 60                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 6.0V            | 19                    | 26                | 31                           | 39                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 6.0V            | 26                    | 35                | 44                           | 53                            | ns       |
| t <sub>PHL</sub> , t <sub>PLH</sub> | Maximum Propagation Delay, LE to Q     | C <sub>L</sub> = 50 pF                          | 2.0V            | 63                    | 175               | 220                          | 263                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 2.0V            | 110                   | 225               | 280                          | 338                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 4.5V            | 25                    | 35                | 44                           | 52                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 4.5V            | 35                    | 45                | 56                           | 68                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 6.0V            | 21                    | 30                | 37                           | 45                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 6.0V            | 28                    | 39                | 49                           | 59                            | 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            | 50                    | 150               |                              | 225                           | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 2.0V            | 80                    | 200               | 250                          | 300                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 4.5V            | 21                    | 30                | 37                           | 45                            | ns       |
|                                     |                                        | C <sub>L</sub> = 150 pF                         | 4.5V            | 30                    | 40                | 50                           | 60                            | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 6.0V            | 19                    | 26                | 31                           | 39                            | ns       |
| t <sub>PHZ</sub> , t <sub>PLZ</sub> | Maximum Output Disable Time            | C <sub>L</sub> = 150 pF                         | 6.0V            | 26                    | 35                | 44                           | 53                            | ns       |
|                                     |                                        | R <sub>L</sub> = 1 kΩ                           | 2.0V            | 50                    | 150               | 188                          | 225                           | ns       |
|                                     |                                        | C <sub>L</sub> = 50 pF                          | 4.5V            | 21                    | 30                | 37                           | 45                            | ns       |
|                                     |                                        |                                                 | 6.0V            | 19                    | 26                | 31                           | 39                            | ns       |
| t <sub>S</sub>                      | Minimum Set Up Time                    |                                                 | 2.0V            |                       | 50                | 60                           | 75                            | ns       |
|                                     |                                        |                                                 | 4.5V            |                       | 9                 | 13                           | 15                            | ns       |
|                                     |                                        |                                                 | 6.0V            |                       | 9                 | 11                           | 13                            | ns       |
| t <sub>H</sub>                      | Minimum Hold Time                      |                                                 | 2.0V            |                       | 5                 | 5                            | 5                             | ns       |
|                                     |                                        |                                                 | 4.5V            |                       | 5                 | 5                            | 5                             | ns       |
|                                     |                                        |                                                 | 6.0V            |                       | 5                 | 5                            | 5                             | ns       |
| t <sub>W</sub>                      | Minimum Pulse Width                    |                                                 | 2.0V            | 30                    | 80                | 100                          | 120                           | ns       |
|                                     |                                        |                                                 | 4.5V            | 10                    | 16                | 20                           | 24                            | ns       |
|                                     |                                        |                                                 | 6.0V            | 9                     | 14                | 18                           | 20                            | 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) | (per latch)<br>OC = V <sub>CC</sub><br>OC = GND |                 | 30<br>50              |                   |                              |                               | pF<br>pF |
| C <sub>IN</sub>                     | Maximum Input Capacitance              |                                                 |                 | 5                     | 10                | 10                           | 10                            | pF       |

## AC Electrical Characteristics (Continued)

| 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 |                              |                               |       |
| C <sub>OUT</sub> | Maximum Output Capacitance |            |                 | 15                    | 20                | 20                           | 20                            | pF    |
|                  |                            |            |                 |                       |                   |                              |                               |       |

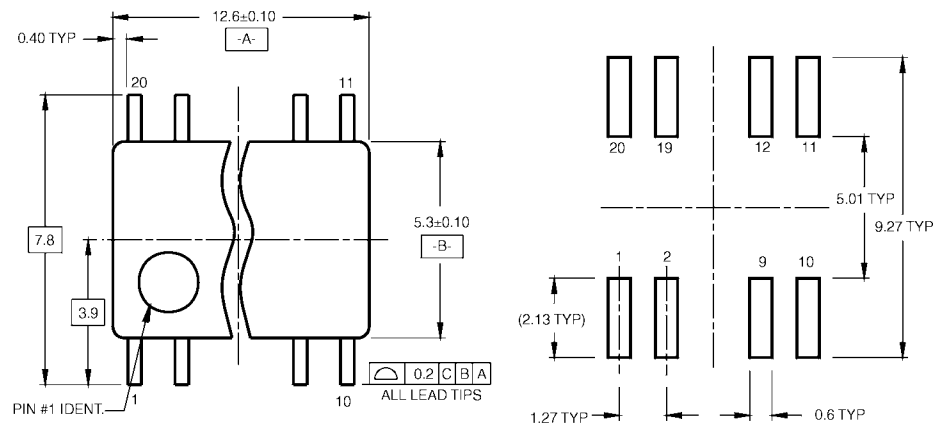
**Note 5:** C<sub>PD</sub> determines the no load dynamic power consumption,  $P_D = C_{PD} V_{CC}^2 f + I_{CC} V_{CC}$ , and the no load dynamic current consumption,  $I_S = C_{PD} V_{CC} f + I_{CC}$ .

**Physical Dimensions** inches (millimeters) unless otherwise noted

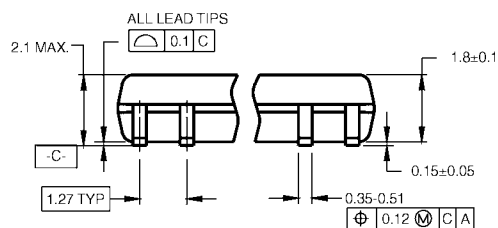


**20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide  
Package Number M20B**

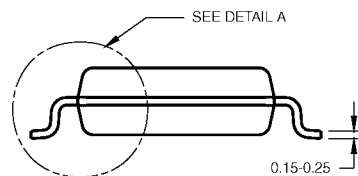
# Physical Dimensions inches (millimeters) unless otherwise noted (Continued)



## LAND PATTERN RECOMMENDATION



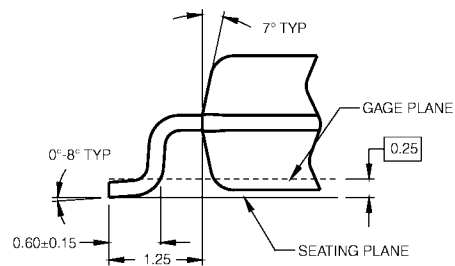
DIMENSIONS ARE IN MILLIMETERS



## NOTES:

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

M20DRevB1

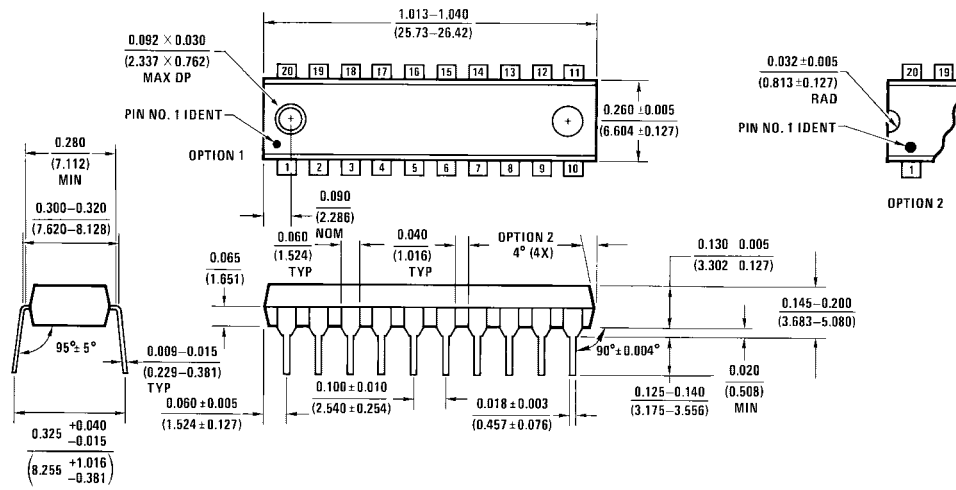


## DETAIL A

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





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

N20A (REV G)

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

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