

MC74AC273, MC74ACT273

Octal D Flip-Flop

The MC74AC273/74ACT273 has eight edge-triggered D-type flip-flops with individual D inputs and \overline{Q} outputs. The common buffered Clock (CP) and Master Reset (MR) inputs load and reset (clear) all flip-flops simultaneously.

The register is fully edge-triggered. The state of each D input, one setup time before the LOW-to-HIGH clock transition, is transferred to the corresponding flip-flop's Q output.

All outputs will be forced LOW independently of Clock or Data inputs by a LOW voltage level on the MR input. The device is useful for applications where the true output only is required and the Clock and Master Reset are common to all storage elements.

- Ideal Buffer for MOS Microprocessor or Memory
- Eight Edge-Triggered D Flip-Flops
- Buffered Common Clock
- Buffered, Asynchronous Master Reset
- See MC74AC377 for Clock Enable Version
- See MC74AC373 for Transparent Latch Version
- See MC74AC374 for 3-State Version
- Outputs Source/Sink 24 mA
- 'ACT273 Has TTL Compatible Inputs

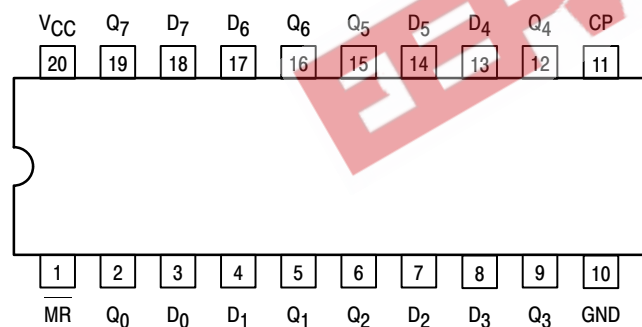


Figure 1. Pinout: 20-Lead Packages Conductors (Top View)

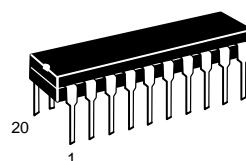
PIN ASSIGNMENT

| PIN | FUNCTION |
|--------------------------------|-------------------|
| D ₀ –D ₇ | Data Inputs |
| MR | Master Reset |
| CP | Clock Pulse Input |
| Q ₀ –Q ₇ | Data Outputs |

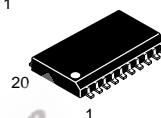


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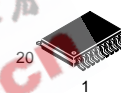
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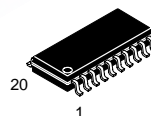
PDIP-20
N SUFFIX
CASE 738



SO-20
DW SUFFIX
CASE 751



TSSOP-20
DT SUFFIX
CASE 948E



EIAJ-20
M SUFFIX
CASE 967

ORDERING INFORMATION

| Device | Package | Shipping |
|----------------|----------|------------------|
| MC74AC273N | PDIP-20 | 18 Units/Rail |
| MC74ACT273N | PDIP-20 | 18 Units/Rail |
| MC74AC273DW | SOIC-20 | 38 Units/Rail |
| MC74AC273DWR2 | SOIC-20 | 1000 Tape & Reel |
| MC74ACT273DW | SOIC-20 | 38 Units/Rail |
| MC74ACT273DWR2 | SOIC-20 | 1000 Tape & Reel |
| MC74AC273DT | TSSOP-20 | 75 Units/Rail |
| MC74AC273DTR2 | TSSOP-20 | 2500 Tape & Reel |
| MC74ACT273DT | TSSOP-20 | 75 Units/Rail |
| MC74ACT273DTR2 | TSSOP-20 | 2500 Tape & Reel |
| MC74AC273M | EIAJ-20 | 40 Units/Rail |
| MC74AC273MEL | EIAJ-20 | 2000 Tape & Reel |
| MC74ACT273M | EIAJ-20 | 40 Units/Rail |
| MC74ACT273MEL | EIAJ-20 | 2000 Tape & Reel |

DEVICE MARKING INFORMATION

See general marking information in the device marking section on page 7 of this data sheet.

MC74AC273, MC74ACT273

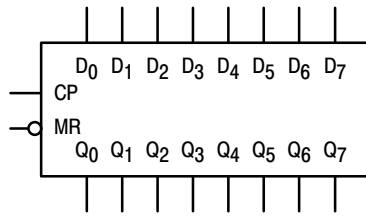
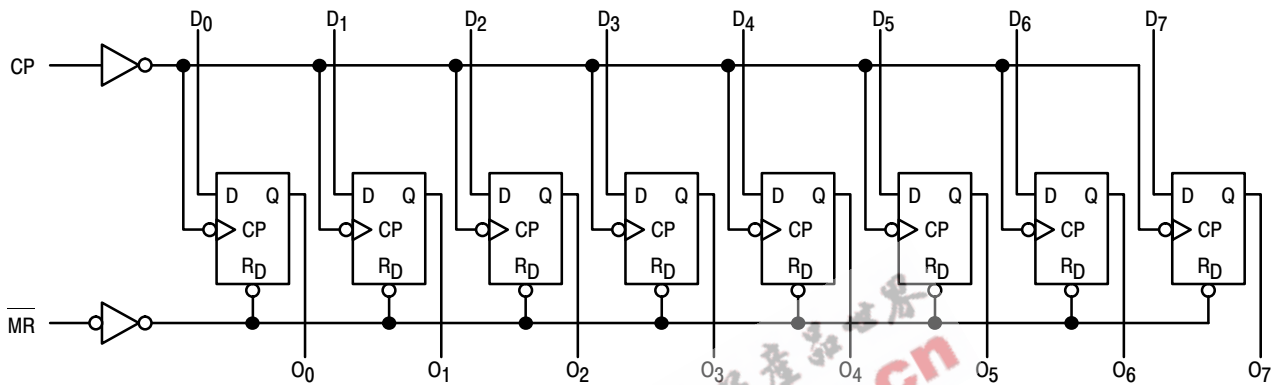


Figure 2. Logic Symbol

MODE SELECT-FUNCTION TABLE

| Operating Mode | Inputs | | | Outputs |
|----------------|--------|----|----------------|----------------|
| | MR | CP | D _n | Q _n |
| Reset (Clear) | L | X | X | L |
| Load '1' | H | ⌋ | H | H |
| Load '0' | H | ⌋ | L | L |

H = HIGH Voltage Level
 L = LOW Voltage Level
 X = Immaterial
 ⌋ = LOW-to-HIGH Clock Transition



NOTE: That this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

Figure 3. Logic Diagram

MAXIMUM RATINGS*

| Symbol | Parameter | Value | Unit |
|------------------|--|------------------------------|------|
| V _{CC} | DC Supply Voltage (Referenced to GND) | -0.5 to +7.0 | V |
| V _{IN} | DC Input Voltage (Referenced to GND) | -0.5 to V _{CC} +0.5 | V |
| V _{OUT} | DC Output Voltage (Referenced to GND) | -0.5 to V _{CC} +0.5 | V |
| I _{IN} | DC Input Current, per Pin | ±20 | mA |
| I _{OUT} | DC Output Sink/Source Current, per Pin | ±50 | mA |
| I _{CC} | DC V _{CC} or GND Current per Output Pin | ±50 | mA |
| T _{stg} | Storage Temperature | -65 to +150 | °C |

*Maximum Ratings are those values beyond which damage to the device may occur. Functional operation should be restricted to the Recommended Operating Conditions.

MC74AC273, MC74ACT273

RECOMMENDED OPERATING CONDITIONS

| Symbol | Parameter | Min | Typ | Max | Unit | |
|------------------------------------|---|-------------------------|-----|-----------------|------|------|
| V _{CC} | Supply Voltage | 'AC | 2.0 | 5.0 | 6.0 | V |
| | | 'ACT | 4.5 | 5.0 | 5.5 | |
| V _{in} , V _{out} | DC Input Voltage, Output Voltage (Ref. to GND) | 0 | – | V _{CC} | V | |
| t _r , t _f | Input Rise and Fall Time (Note 1) 'AC Devices except Schmitt Inputs | V _{CC} @ 3.0 V | – | 150 | – | ns/V |
| | | V _{CC} @ 4.5 V | – | 40 | – | |
| | | V _{CC} @ 5.5 V | – | 25 | – | |
| t _r , t _f | Input Rise and Fall Time (Note 2) 'ACT Devices except Schmitt Inputs | V _{CC} @ 4.5 V | – | 10 | – | ns/V |
| | | V _{CC} @ 5.5 V | – | 8.0 | – | |
| T _J | Junction Temperature (PDIP) | – | – | 140 | °C | |
| T _A | Operating Ambient Temperature Range | –40 | 25 | 85 | °C | |
| I _{OH} | Output Current – High | – | – | –24 | mA | |
| I _{OL} | Output Current – Low | – | – | 24 | mA | |

1. V_{IN} from 30% to 70% V_{CC}; see individual Data Sheets for devices that differ from the typical input rise and fall times.

2. V_{IN} from 0.8 V to 2.0 V; see individual Data Sheets for devices that differ from the typical input rise and fall times.

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74AC | | 74AC | Unit | Conditions | |
|------------------|--------------------------------------|------------------------|------------------------|-------------------|---------------------------------------|------|--|---|
| | | | T _A = +25°C | | T _A = –40°C to +85°C | | | |
| | | | Typ | Guaranteed Limits | | | | |
| V _{IH} | Minimum High Level Input Voltage | 3.0 | 1.5 | 2.1 | 2.1 | V | V _{OUT} = 0.1 V or V _{CC} – 0.1 V | |
| | | 4.5 | 2.25 | 3.15 | 3.15 | | | |
| | | 5.5 | 2.75 | 3.85 | 3.85 | | | |
| V _{IL} | Maximum Low Level Input Voltage | 3.0 | 1.5 | 0.9 | 0.9 | V | V _{OUT} = 0.1 V or V _{CC} – 0.1 V | |
| | | 4.5 | 2.25 | 1.35 | 1.35 | | | |
| | | 5.5 | 2.75 | 1.65 | 1.65 | | | |
| V _{OH} | Minimum High Level Output Voltage | 3.0 | 2.99 | 2.9 | 2.9 | V | I _{OUT} = –50 μA | |
| | | 4.5 | 4.49 | 4.4 | 4.4 | | | |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | |
| | | | 3.0 | – | 2.56 | 2.46 | V | *V _{IN} = V _{IL} or V _{IH} –12 mA I _{OH} –24 mA –24 mA |
| | | | 4.5 | – | 3.86 | 3.76 | | |
| | | | 5.5 | – | 4.86 | 4.76 | | |
| V _{OL} | Maximum Low Level Output Voltage | 3.0 | 0.002 | 0.1 | 0.1 | V | I _{OUT} = 50 μA | |
| | | 4.5 | 0.001 | 0.1 | 0.1 | | | |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | |
| | | | 3.0 | – | 0.36 | 0.44 | V | *V _{IN} = V _{IL} or V _{IH} 12 mA I _{OL} 24 mA 24 mA |
| | | | 4.5 | – | 0.36 | 0.44 | | |
| | | | 5.5 | – | 0.36 | 0.44 | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | – | ±0.1 | ±1.0 | μA | V _I = V _{CC} , GND | |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | – | – | 75 | mA | V _{OLD} = 1.65 V Max | |
| I _{OHD} | | 5.5 | – | – | –75 | mA | V _{OHD} = 3.85 V Min | |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | – | 8.0 | 80 | μA | V _{IN} = V _{CC} or GND | |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

NOTE: Note: I_{IN} and I_{CC} @ 3.0 V are guaranteed to be less than or equal to the respective limit @ 5.5 V V_{CC}.

MC74AC273, MC74ACT273

AC CHARACTERISTICS (For Figures and Waveforms – See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

| Symbol | Parameter | V _{CC} * (V) | 74AC | | | 74AC | | Unit | Fig. No. |
|------------------|--------------------------------------|--------------------------|--|------------|--------------|--|--------------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| f _{max} | Maximum Clock Frequency | 3.3 5.0 | 90 140 | 125 175 | – – | 75 125 | – – | Mhz | 3–3 |
| t _{PLH} | Propagation Delay Clock to Output | 3.3 5.0 | 4.0 3.0 | 7.0 5.5 | 12.5 9.0 | 3.0 2.5 | 14.0 10.0 | ns | 3–6 |
| t _{PHL} | Propagation Delay Clock to Output | 3.3 5.0 | 4.0 3.0 | 7.0 5.0 | 13.0 10.0 | 3.5 2.5 | 14.5 11.0 | ns | 3–6 |
| t _{PHL} | Propagation Delay MR to Output | 3.3 5.0 | 4.0 3.0 | 7.0 5.0 | 13.0 10.0 | 3.5 2.5 | 14.0 10.5 | ns | 3–6 |

*Voltage Range 3.3 V is 3.3 V ±0.3 V.
Voltage Range 5.0 V is 5.0 V ±0.5 V.

AC OPERATING REQUIREMENTS

| Symbol | Parameter | V _{CC} * (V) | 74AC | | 74AC | | Unit | Fig. No. |
|------------------|---------------------------------------|--------------------------|--|--------------------|--|----|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Typ | Guaranteed Minimum | | | | |
| t _s | Setup Time, HIGH or LOW Data to CP | 3.3 5.0 | 3.5 2.5 | 5.5 4.0 | 6.0 4.5 | ns | 3–9 | |
| t _h | Hold Time, HIGH or LOW Data to CP | 3.3 5.0 | -2.0 -1.0 | 0 1.0 | 0 1.0 | ns | 3–9 | |
| t _w | Clock Pulse Width HIGH or LOW | 3.3 5.0 | 3.5 2.5 | 5.5 4.0 | 6.0 4.5 | ns | 3–6 | |
| t _w | MR Pulse Width HIGH or LOW | 3.3 5.0 | 2.0 1.5 | 5.5 4.0 | 6.0 4.5 | ns | 3–6 | |
| t _{rec} | Recovery Time MR to CP | 3.3 5.0 | 1.5 1.0 | 3.5 2.0 | 4.5 3.0 | ns | 3–9 | |

*Voltage Range 3.3 V is 3.3 V ±0.3 V.
Voltage Range 5.0 V is 5.0 V ±0.5 V.

MC74AC273, MC74ACT273

DC CHARACTERISTICS

| Symbol | Parameter | V _{CC} (V) | 74ACT | | 74ACT | | Unit | Conditions |
|--------------------|--|------------------------|------------------------|-------------------|---------------------------------|------|---|---|
| | | | T _A = +25°C | | T _A = -40°C to +85°C | | | |
| | | | Typ | Guaranteed Limits | | | | |
| V _{IH} | Minimum High Level Input Voltage | 4.5 | 1.5 | 2.0 | 2.0 | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V | |
| | | 5.5 | 1.5 | 2.0 | 2.0 | | | |
| V _{IL} | Maximum Low Level Input Voltage | 4.5 | 1.5 | 0.8 | 0.8 | V | V _{OUT} = 0.1 V or V _{CC} - 0.1 V | |
| | | 5.5 | 1.5 | 0.8 | 0.8 | | | |
| V _{OH} | Minimum High Level Output Voltage | 4.5 | 4.49 | 4.4 | 4.4 | V | I _{OUT} = -50 μA | |
| | | 5.5 | 5.49 | 5.4 | 5.4 | | | |
| | | | 4.5 | - | 3.86 | 3.76 | V | *V _{IN} = V _{IL} or V _{IH} I _{OH} = -24 mA |
| | | | 5.5 | - | 4.86 | 4.76 | | |
| V _{OL} | Maximum Low Level Output Voltage | 4.5 | 0.001 | 0.1 | 0.1 | V | I _{OUT} = 50 μA | |
| | | 5.5 | 0.001 | 0.1 | 0.1 | | | |
| | | | 4.5 | - | 0.36 | 0.44 | V | *V _{IN} = V _{IL} or V _{IH} I _{OL} = 24 mA |
| | | | 5.5 | - | 0.36 | 0.44 | | |
| I _{IN} | Maximum Input Leakage Current | 5.5 | - | ±0.1 | ±1.0 | μA | V _I = V _{CC} , GND | |
| ΔI _{CC} T | Additional Max. I _{CC} /Input | 5.5 | 0.6 | - | 1.5 | mA | V _I = V _{CC} - 2.1 V | |
| I _{OLD} | †Minimum Dynamic Output Current | 5.5 | - | - | 75 | mA | V _{OLD} = 1.65 V Max | |
| I _{OHD} | | 5.5 | - | - | -75 | mA | V _{OHD} = 3.85 V Min | |
| I _{CC} | Maximum Quiescent Supply Current | 5.5 | - | 8.0 | 80 | μA | V _{IN} = V _{CC} or GND | |

*All outputs loaded; thresholds on input associated with output under test.

†Maximum test duration 2.0 ms, one output loaded at a time.

AC CHARACTERISTICS (For Figures and Waveforms – See Section 3 of the ON Semiconductor FACT Data Book, DL138/D)

| Symbol | Parameter | V _{CC} * (V) | 74ACT | | | 74ACT | | Unit | Fig. No. |
|------------------|-----------------------------------|--------------------------|--|-----|-----|---|------|------|----------|
| | | | T _A = +25°C C _L = 50 pF | | | T _A = -40°C to +85°C C _L = 50 pF | | | |
| | | | Min | Typ | Max | Min | Max | | |
| f _{max} | Maximum Clock Frequency | 5.0 | 125 | 200 | - | 125 | - | MHz | 3-3 |
| t _{PHL} | Propagation Delay Clock to Output | 5.0 | 3.0 | 6.0 | 10 | 2.5 | 11.0 | ns | 3-6 |
| t _{PLH} | Propagation Delay Clock to Output | 5.0 | 3.0 | 6.5 | 11 | 2.5 | 12.0 | ns | 3-6 |
| t _{PHL} | Propagation Delay MR to Output | 5.0 | 3.0 | 7.0 | 11 | 2.5 | 11.5 | ns | 3-6 |

*Voltage Range 5.0 V is 5.0 V ±0.5 V.

MC74AC273, MC74ACT273

AC OPERATING REQUIREMENTS

| Symbol | Parameter | V _{CC} * (V) | 74ACT | | Unit | Fig. No. | |
|------------------|---------------------------------------|--------------------------|--|--------------------|------|-------------|--|
| | | | T _A = +25°C C _L = 50 pF | | | | T _A = -40°C to +85°C C _L = 50 pF |
| | | | Typ | Guaranteed Minimum | | | |
| t _s | Setup Time, HIGH or LOW Data to CP | 5.0 | 3.0 | 4.5 | 5.0 | ns | 3-9 |
| t _h | Hold Time, HIGH or LOW Data to CP | 5.0 | -2.5 | 2.0 | 2.0 | ns | 3-9 |
| t _w | Clock Pulse Width HIGH or LOW | 5.0 | 2.5 | 4.0 | 4.5 | ns | 3-6 |
| t _w | MR Pulse Width HIGH or LOW | 5.0 | 2.5 | 4.0 | 4.5 | ns | 3-6 |
| t _{rec} | Recovery Time MR to CP | 5.0 | -1.0 | 2.0 | 3.0 | ns | 3-6 |

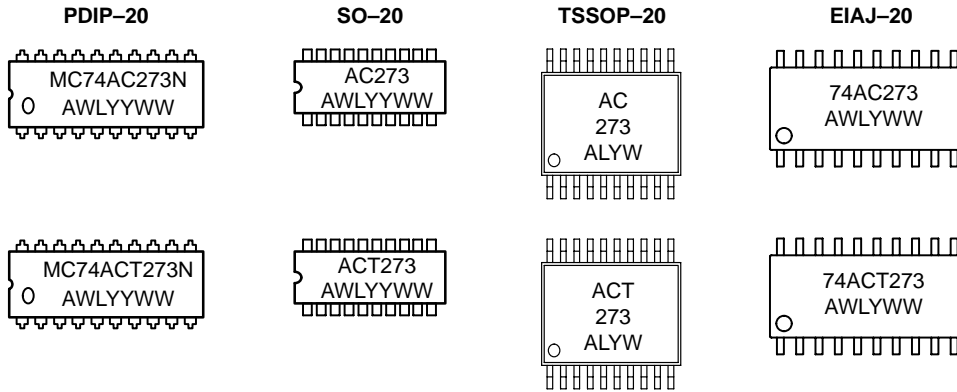
*Voltage Range 5.0 V is 5.0 V ±0.5 V.

CAPACITANCE

| Symbol | Parameter | Value Typ | Unit | Test Conditions |
|-----------------|-------------------------------|--------------|------|-------------------------|
| C _{IN} | Input Capacitance | 4.5 | pF | V _{CC} = 5.0 V |
| C _{PD} | Power Dissipation Capacitance | 50 | pF | V _{CC} = 5.0 V |

MC74AC273, MC74ACT273

MARKING DIAGRAMS



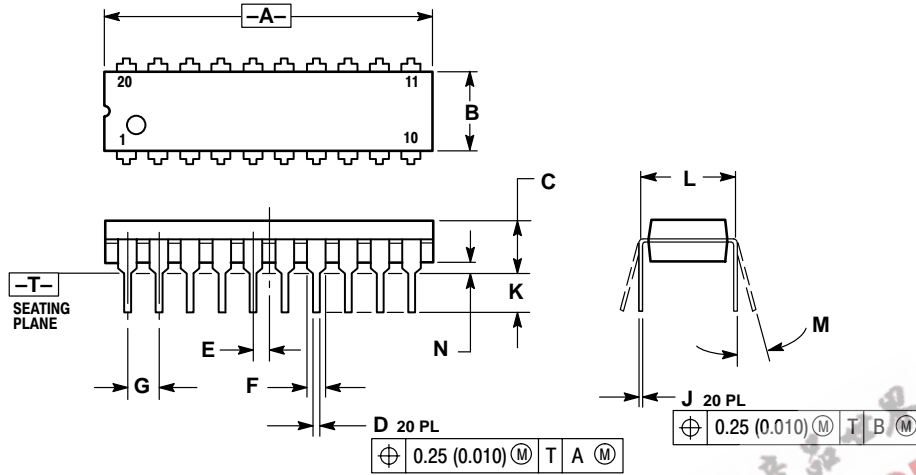
A = Assembly Location
WL, L = Wafer Lot
YY, Y = Year
WW, W = Work Week



MC74AC273, MC74ACT273

PACKAGE DIMENSIONS

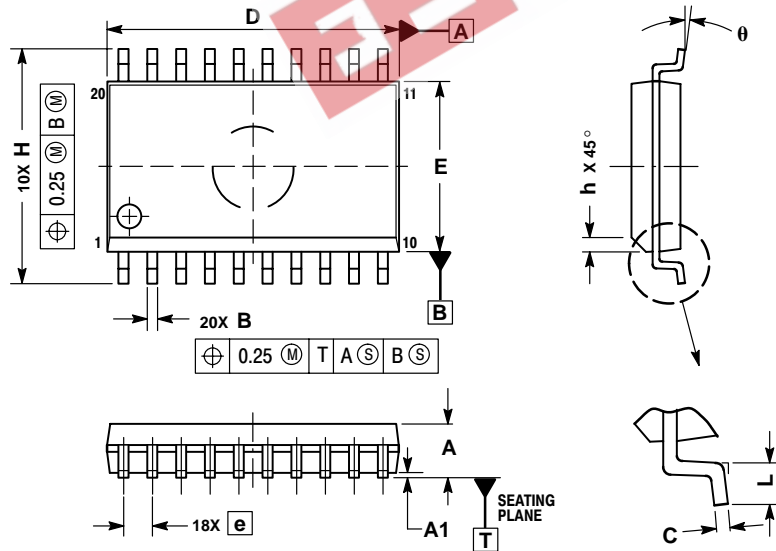
PDIP-20
N SUFFIX
 20 PIN PLASTIC DIP PACKAGE
 CASE 738-03
 ISSUE E



- NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
 2. CONTROLLING DIMENSION: INCH.
 3. DIMENSION L TO CENTER OF LEAD WHEN FORMED PARALLEL.
 4. DIMENSION B DOES NOT INCLUDE MOLD FLASH.

| DIM | INCHES | | MILLIMETERS | |
|-----|-----------|-------|-------------|-------|
| | MIN | MAX | MIN | MAX |
| A | 1.010 | 1.070 | 25.66 | 27.17 |
| B | 0.240 | 0.260 | 6.10 | 6.60 |
| C | 0.150 | 0.180 | 3.81 | 4.57 |
| D | 0.015 | 0.022 | 0.39 | 0.55 |
| E | 0.050 BSC | | 1.27 BSC | |
| F | 0.050 | 0.070 | 1.27 | 1.77 |
| G | 0.100 BSC | | 2.54 BSC | |
| J | 0.008 | 0.015 | 0.21 | 0.38 |
| K | 0.110 | 0.140 | 2.80 | 3.55 |
| L | 0.300 BSC | | 7.62 BSC | |
| M | 0° | 15° | 0° | 15° |
| N | 0.020 | 0.040 | 0.51 | 1.01 |

SO-20
DW SUFFIX
 20 PIN PLASTIC SOIC PACKAGE
 CASE 751D-05
 ISSUE F



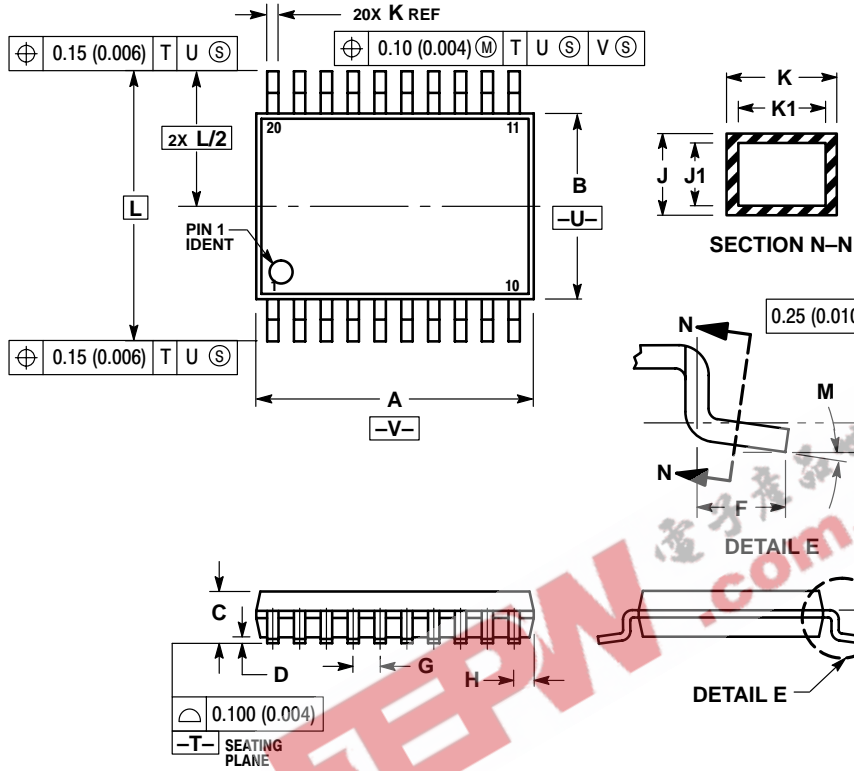
- NOTES:
1. DIMENSIONS ARE IN MILLIMETERS.
 2. INTERPRET DIMENSIONS AND TOLERANCES PER ASME Y14.5M, 1994.
 3. DIMENSIONS D AND E DO NOT INCLUDE MOLD PROTRUSION.
 4. MAXIMUM MOLD PROTRUSION 0.15 PER SIDE.
 5. DIMENSION B DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE PROTRUSION SHALL BE 0.13 TOTAL IN EXCESS OF B DIMENSION AT MAXIMUM MATERIAL CONDITION.

| DIM | MILLIMETERS | |
|----------|-------------|-------|
| | MIN | MAX |
| A | 2.35 | 2.65 |
| A1 | 0.10 | 0.25 |
| B | 0.35 | 0.49 |
| C | 0.23 | 0.32 |
| D | 12.65 | 12.95 |
| E | 7.40 | 7.60 |
| e | 1.27 BSC | |
| H | 10.05 | 10.55 |
| h | 0.25 | 0.75 |
| L | 0.50 | 0.90 |
| θ | 0° | 7° |

MC74AC273, MC74ACT273

PACKAGE DIMENSIONS

TSSOP-20
DT SUFFIX
 20 PIN PLASTIC TSSOP PACKAGE
 CASE 948E-02
 ISSUE A

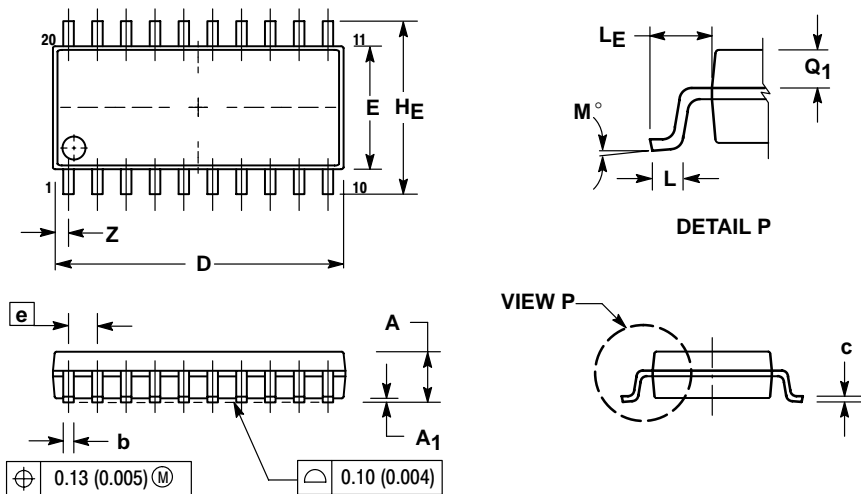


NOTES:

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 -V-.

| DIM | MILLIMETERS | | INCHES | |
|-----|-------------|------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | 6.40 | 6.60 | 0.252 | 0.260 |
| 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 | 0.27 | 0.37 | 0.011 | 0.015 |
| 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° |

EIAJ-20
M SUFFIX
 20 PIN PLASTIC EIAJ PACKAGE
 CASE 967-01
 ISSUE O



NOTES:

1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: MILLIMETER.
3. DIMENSIONS D AND E DO NOT INCLUDE MOLD FLASH OR PROTRUSIONS AND ARE MEASURED AT THE PARTING LINE. MOLD FLASH OR PROTRUSIONS SHALL NOT EXCEED 0.15 (0.006) PER SIDE.
4. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
5. THE LEAD WIDTH DIMENSION (b) DOES NOT INCLUDE DAMBAR PROTRUSION. ALLOWABLE DAMBAR PROTRUSION SHALL BE 0.08 (0.003) TOTAL IN EXCESS OF THE LEAD WIDTH DIMENSION AT MAXIMUM MATERIAL CONDITION. DAMBAR CANNOT BE LOCATED ON THE LOWER RADIUS OR THE FOOT. MINIMUM SPACE BETWEEN PROTRUSIONS AND ADJACENT LEAD TO BE 0.46 (0.018).

| DIM | MILLIMETERS | | INCHES | |
|----------------|-------------|-------|-----------|-------|
| | MIN | MAX | MIN | MAX |
| A | --- | 2.05 | --- | 0.081 |
| A ₁ | 0.05 | 0.20 | 0.002 | 0.008 |
| b | 0.35 | 0.50 | 0.014 | 0.020 |
| c | 0.18 | 0.27 | 0.007 | 0.011 |
| D | 12.35 | 12.80 | 0.486 | 0.504 |
| E | 5.10 | 5.45 | 0.201 | 0.215 |
| e | 1.27 BSC | | 0.050 BSC | |
| H _E | 7.40 | 8.20 | 0.291 | 0.323 |
| L | 0.50 | 0.85 | 0.020 | 0.033 |
| L _F | 1.10 | 1.50 | 0.043 | 0.059 |
| M | 0° | 10° | 0° | 10° |
| Q ₁ | 0.70 | 0.90 | 0.028 | 0.035 |
| Z | --- | 0.81 | --- | 0.032 |

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