# Low-Voltage CMOS Octal Transparent Latch

## With 5 V-Tolerant Inputs and Outputs (3-State, Non-Inverting)

The MC74LCX373 is a high performance, non-inverting octal transparent latch operating from a 2.3 to 3.6 V supply. High impedance TTL compatible inputs significantly reduce current loading to input drivers while TTL compatible outputs offer improved switching noise performance. A  $V_{\rm I}$  specification of 5.5 V allows MC74LCX373 inputs to be safely driven from 5 V devices.

The MC74LCX373 contains 8 D-type latches with 3-state outputs. When the Latch Enable (LE) input is HIGH, data on the Dn inputs enters the latches. In this condition, the latches are transparent, i.e., a latch output will change state each time its D input changes. When LE is LOW, the latches store the information that was present on the D inputs a setup time preceding the HIGH-to-LOW transition of LE. The 3-state standard outputs are controlled by the Output Enable  $(\overline{OE})$  input. When  $\overline{OE}$  is LOW, the standard outputs are enabled. When  $\overline{OE}$  is HIGH, the standard outputs are in the high impedance state, but this does not interfere with new data entering into the latches.

#### **Features**

- Designed for 2.3 to 3.6 V V<sub>CC</sub> Operation
- 5 V Tolerant Interface Capability With 5 V TTL Logic
- Supports Live Insertion and Withdrawal
- $I_{OFF}$  Specification Guarantees High Impedance When  $V_{CC} = 0 \text{ V}$
- LVTTL Compatible
- LVCMOS Compatible
- 24 mA Balanced Output Sink and Source Capability
- Near Zero Static Supply Current in all Three Logic States (10 μA)
   Substantially Reduces System Power Requirements
- Latchup Performance Exceeds 500 mA

• ESD Performance: Human Body Model >2000 V

Machine Model >200 V

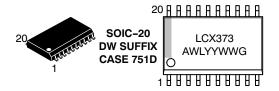
Pb-Free Packages are Available\*

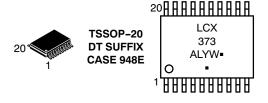


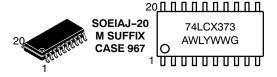
#### ON Semiconductor®

http://onsemi.com

MARKING DIAGRAMS







A = Assembly Location

L, WL = Wafer Lot
Y, YY = Year
W, WW = Work Week
G or ■ = Pb-Free Package

(Note: Microdot may be in either location)

#### **ORDERING INFORMATION**

See detailed ordering and shipping information in the package dimensions section on page 6 of this data sheet.

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

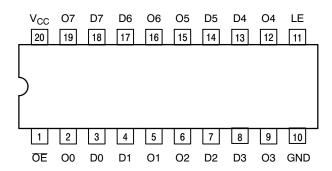


Figure 1. Pinout (Top View)

#### **PIN NAMES**

PINS	FUNCTION
ŌĒ	Output Enable Input
LE	Latch Enable Input
D0-D7	Data Inputs
00-07	3-State Latch Outputs

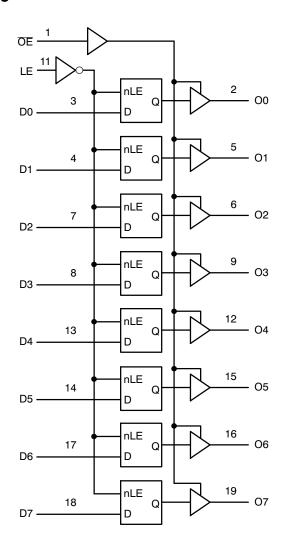


Figure 2. Logic Diagram

#### **TRUTH TABLE**

	INPUTS		INPUTS		OUTPUTS	
OE	LE	Dn	On	OPERATING MODE		
L L	H H	ΗL	H L	Transparent (Latch Disabled); Read Latch		
L L	L L	h I	H L	Latched (Latch Enabled) Read Latch		
L	L	Х	NC	Hold; Read Latch		
Н	L	Х	Z	Hold; Disabled Outputs		
H H	H H	ΗL	Z Z	Transparent (Latch Disabled); Disabled Outputs		
H H	L L	h I	Z Z	Latched (Latch Enabled); Disabled Outputs		

H = High Voltage Level

h = High Voltage Level One Setup Time Prior to the Latch Enable High-to-Low Transition

= Low Voltage Level

I = Low Voltage Level One Setup Time Prior to the Latch Enable High-to-Low Transition

NC = No Change, State Prior to the Latch Enable High-to-Low Transition

X = High or Low Voltage Level or Transitions are Acceptable

Z = High Impedance State

For I<sub>CC</sub> Reasons DO NOT FLOAT Inputs

#### **MAXIMUM RATINGS**

Symbol	Parameter	Value	Condition	Unit
V <sub>CC</sub>	DC Supply Voltage	-0.5 to +7.0		V
VI	DC Input Voltage	$-0.5 \le V_1 \le +7.0$		V
Vo	DC Output Voltage	$-0.5 \le V_0 \le +7.0$	Output in 3-State	V
		$-0.5 \le V_{O} \le V_{CC} + 0.5$	Output in HIGH or LOW State (Note 1)	V
I <sub>IK</sub>	DC Input Diode Current	-50	V <sub>I</sub> < GND	mA
I <sub>OK</sub>	DC Output Diode Current	-50	V <sub>O</sub> < GND	mA
		+50	V <sub>O</sub> > V <sub>CC</sub>	mA
I <sub>O</sub>	DC Output Source/Sink Current	±50		mA
I <sub>CC</sub>	DC Supply Current Per Supply Pin	±100		mA
I <sub>GND</sub>	DC Ground Current Per Ground Pin	±100		mA
T <sub>STG</sub>	Storage Temperature Range	-65 to +150		°C

Stresses exceeding Maximum Ratings may damage the device. Maximum Ratings are stress ratings only. Functional operation above the Recommended Operating Conditions is not implied. Extended exposure to stresses above the Recommended Operating Conditions may affect device reliability.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter		Min	Тур	Max	Unit
V <sub>CC</sub>	Supply Voltage	Operating Data Retention Only	2.0 1.5	2.5, 3.3 2.5, 3.3	3.6 3.6	V
VI	Input Voltage		0		5.5	V
V <sub>O</sub>	Output Voltage	(HIGH or LOW State) (3-State)	0 0		V <sub>CC</sub> 5.5	V
I <sub>OH</sub>	HIGH Level Output Current	V <sub>CC</sub> = 3.0 V - 3.6 V V <sub>CC</sub> = 2.7 V - 3.0 V V <sub>CC</sub> = 2.3 V - 2.7 V			- 24 - 12 - 8	mA
I <sub>OL</sub>	LOW Level Output Current	V <sub>CC</sub> = 3.0 V - 3.6 V V <sub>CC</sub> = 2.7 V - 3.0 V V <sub>CC</sub> = 2.3 V - 2.7 V			+ 24 + 12 + 8	mA
T <sub>A</sub>	Operating Free-Air Temperature		-40		+85	°C
Δt/ΔV	Input Transition Rise or Fall Rate, $V_{\rm IN}$ from	0.8 V to 2.0 V, V <sub>CC</sub> = 3.0 V	0		10	ns/V

<sup>1.</sup> I<sub>O</sub> absolute maximum rating must be observed.

#### DC ELECTRICAL CHARACTERISTICS

			T <sub>A</sub> = -40°C	to +85°C	
Symbol	Characteristic	Condition	Min	Max	Unit
V <sub>IH</sub>	HIGH Level Input Voltage (Note 2)	2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V	1.7		V
		2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V	2.0		1
V <sub>IL</sub>	LOW Level Input Voltage (Note 2)	2.3 V ≤ V <sub>CC</sub> ≤ 2.7 V		0.7	V
		2.7 V ≤ V <sub>CC</sub> ≤ 3.6 V		0.8	1
V <sub>OH</sub>	HIGH Level Output Voltage	$2.3 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; \text{ I}_{OL} = 100 \mu\text{A}$	V <sub>CC</sub> - 0.2		V
		V <sub>CC</sub> = 2.3 V; I <sub>OH</sub> = -8 mA	1.8		1
		$V_{CC} = 2.7 \text{ V}; I_{OH} = -12 \text{ mA}$	2.2		1
		V <sub>CC</sub> = 3.0 V; I <sub>OH</sub> = -18 mA	2.4		1
		$V_{CC} = 3.0 \text{ V}; I_{OH} = -24 \text{ mA}$	2.2		1
V <sub>OL</sub>	LOW Level Output Voltage	$2.3 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; \text{ I}_{OL} = 100 \mu\text{A}$		0.2	V
		V <sub>CC</sub> = 2.3 V; I <sub>OL</sub> = 8 mA		0.6	1
		V <sub>CC</sub> = 2.7 V; I <sub>OL</sub> = 12 mA		0.4	1
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 16 mA		0.4	1
		V <sub>CC</sub> = 3.0 V; I <sub>OL</sub> = 24 mA		0.55	1
II	Input Leakage Current	$2.3 \text{ V} \le \text{V}_{CC} \le 3.6 \text{ V}; 0 \text{ V} \le \text{V}_{I} \le 5.5 \text{ V}$		±5	μΑ
l <sub>OZ</sub>	3-State Output Current	$2.3 \le V_{CC} \le 3.6 \text{ V}; \ 0V \le V_{O} \le 5.5 \text{ V}; \ V_{I} = V_{IH} \ or \ V_{IL}$		±5	μΑ
I <sub>OFF</sub>	Power-Off Leakage Current	$V_{CC} = 0 \text{ V}; V_{I} \text{ or } V_{O} = 5.5 \text{ V}$		10	μΑ
I <sub>CC</sub>	Quiescent Supply Current	$2.3 \le V_{CC} \le 3.6 \text{ V}; V_I = \text{GND or } V_{CC}$		10	μΑ
		$2.3 \le V_{CC} \le 3.6 \text{ V}; \ 3.6 \le V_I \text{ or } V_O \le 5.5 \text{ V}$		±10	1
$\Delta I_{CC}$	Increase in I <sub>CC</sub> per Input	$2.3 \le V_{CC} \le 3.6 \text{ V}; V_{IH} = V_{CC} - 0.6 \text{ V}$		500	μΑ

<sup>2.</sup> These values of V<sub>I</sub> are used to test DC electrical characteristics only.

#### AC CHARACTERISTICS $t_R$ = $t_F$ = 2.5 ns; $R_L$ = 500 $\Omega$

					Lin	nits			
				$T_A = -40^{\circ}C$ to $+85^{\circ}C$					
			V <sub>CC</sub> = 3.3	8 V ± 0.3 V	V <sub>CC</sub> =	2.7 V	V <sub>CC</sub> = 2.5	V ± 0.2 V	
			C <sub>L</sub> =	50 pF	C <sub>L</sub> =	50 pF	C <sub>L</sub> =	30 pF	
Symbol	Parameter	Waveform	Min	Max	Min	Max	Min	Max	Unit
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay D <sub>n</sub> to O <sub>n</sub>	1	1.5 1.5	8.0 8.0	1.5 1.5	9.0 9.0	1.5 1.5	9.6 9.6	ns
t <sub>PLH</sub> t <sub>PHL</sub>	Propagation Delay LE to O <sub>n</sub>	3	1.5 1.5	8.5 8.5	1.5 1.5	9.5 9.5	1.5 1.5	10.5 10.5	ns
t <sub>PZH</sub> t <sub>PZL</sub>	Output Enable Time to HIGH and LOW Level	2	1.5 1.5	8.5 8.5	1.5 1.5	9.5 9.5	1.5 1.5	10.5 10.5	ns
t <sub>PHZ</sub>	Output Disable Time From High and Low Level	2	1.5 1.5	7.5 7.5	1.5 1.5	8.5 8.5	1.5 1.5	9.0 9.0	ns
t <sub>s</sub>	Setup Time, HIGH or LOW D <sub>n</sub> to LE	3	2.5		2.5		4.0		
t <sub>h</sub>	Hold Time, HIGH or LOW D <sub>n</sub> to LE	3	1.5		1.5		2.0		
t <sub>w</sub>	LE Pulse Width, HIGH	3	3.3		3.3		4.0		
t <sub>OSHL</sub> t <sub>OSLH</sub>	Output-to-Output Skew (Note 3)			1.0 1.0					ns

Skew is defined as the absolute value of the difference between the actual propagation delay for any two separate outputs of the same device.
 The specification applies to any outputs switching in the same direction, either HIGH-to-LOW (t<sub>OSHL</sub>) or LOW-to-HIGH (t<sub>OSLH</sub>); parameter guaranteed by design.

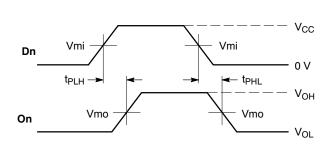
#### **DYNAMIC SWITCHING CHARACTERISTICS**

			T,	<sub>A</sub> = +25°	С	
Symbol	Characteristic	Condition	Min	Тур	Max	Unit
V <sub>OLP</sub>	Dynamic LOW Peak Voltage (Note 4)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V}$ $V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		0.8 0.6		V V
V <sub>OLV</sub>	Dynamic LOW Valley Voltage (Note 4)	$V_{CC} = 3.3 \text{ V}, C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{ V}, V_{IL} = 0 \text{ V} \\ V_{CC} = 2.5 \text{ V}, C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{ V}, V_{IL} = 0 \text{ V}$		-0.8 -0.6		V

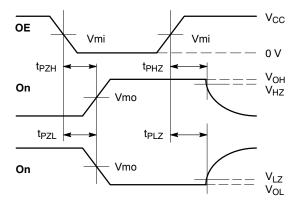
<sup>4.</sup> Number of outputs defined as "n". Measured with "n-1" outputs switching from HIGH-to-LOW or LOW-to-HIGH. The remaining output is measured in the LOW state.

#### **CAPACITIVE CHARACTERISTICS**

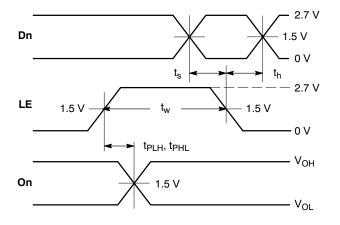
Symbol	Parameter	Condition	Typical	Unit
C <sub>IN</sub>	Input Capacitance	$V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	7	pF
C <sub>I/O</sub>	Input/Output Capacitance	$V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	8	pF
C <sub>PD</sub>	Power Dissipation Capacitance	10 MHz, $V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	25	pF



 $\label{eq:waveform 1 - PROPAGATION DELAYS} \\ t_R = t_F = 2.5 \text{ ns}, 10\% \text{ to } 90\%; f = 1 \text{ MHz}; t_W = 500 \text{ ns}$ 



WAVEFORM 2 – OUTPUT ENABLE AND DISABLE TIMES  $t_{R} = t_{F} = 2.5 \text{ ns}, 10\% \text{ to } 90\%; f = 1 \text{ MHz}; t_{W} = 500 \text{ ns}$ 

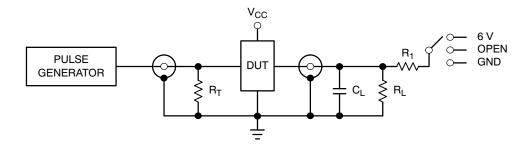


	V <sub>CC</sub>					
Symbol	3.3 V $\pm$ 0.3 V	2.7 V	2.5 V $\pm$ 0.2 V			
Vmi	1.5 V	1.5 V	V <sub>CC</sub> /2			
Vmo	1.5 V	1.5 V	V <sub>CC</sub> /2			
V <sub>HZ</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 0.15 V			
$V_{LZ}$	V <sub>OH</sub> - 0.3 V	V <sub>OH</sub> - 0.3 V	V <sub>OH</sub> - 015 V			

### WAVEFORM 3 – LE to On PROPAGATION DELAYS, LE MINIMUM PULSE WIDTH, Dn to LE SETUP AND HOLD TIMES

 $t_R$  =  $t_F$  = 2.5 ns, 10% to 90%; f = 1 MHz;  $t_W$  = 500 ns except when noted

Figure 3. AC Waveforms



TEST	SWITCH
t <sub>PLH</sub> , t <sub>PHL</sub>	Open
t <sub>PZL</sub> , t <sub>PLZ</sub>	6 V at $V_{CC}$ = 3.3 $\pm$ 0.3 V 6 V at $V_{CC}$ = 2.5 $\pm$ 0.2 V
Open Collector/Drain t <sub>PLH</sub> and t <sub>PHL</sub>	6 V
t <sub>PZH</sub> , t <sub>PHZ</sub>	GND

 $C_L$  = 50 pF at  $V_{CC}$  = 3.3  $\pm$ 0.3 V or equivalent (includes jig and probe capacitance)  $C_L$  = 30 pF at  $V_{CC}$  = 2.5  $\pm$ 0.2 V or equivalent (includes jig and probe capacitance)  $R_L$  =  $R_1$  = 500  $\Omega$  or equivalent

 $R_T = Z_{OUT}$  of pulse generator (typically 50  $\Omega$ )

Figure 4. Test Circuit

#### **ORDERING INFORMATION**

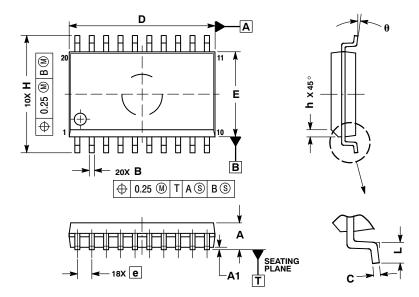
Device	Package	Shipping <sup>†</sup>
MC74LCX373DWR2	SOIC-20	1000 Tape & Reel
MC74LCX373DWR2G	SOIC-20 (Pb-Free)	1000 Tape & Reel
MC74LCX373DT	TSSOP-20*	75 Units / Rail
MC74LCX373DTG	TSSOP-20* (Pb-Free)	75 Units / Rail
MC74LCX373DTR2	TSSOP-20*	2500 Tape & Reel
MC74LCX373DTR2G	TSSOP-20* (Pb-Free)	2500 Tape & Reel
MC74LCX373MEL	SOEIAJ-20	2000 Tape & Reel
MC74LCX373MELG	SOEIAJ-20 (Pb-Free)	2000 Tape & Reel

<sup>†</sup>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.

<sup>\*</sup>This package is inherently Pb-Free.

#### **PACKAGE DIMENSIONS**

#### SOIC-20 **DW SUFFIX** CASE 751D-05 **ISSUE G**



#### NOTES:

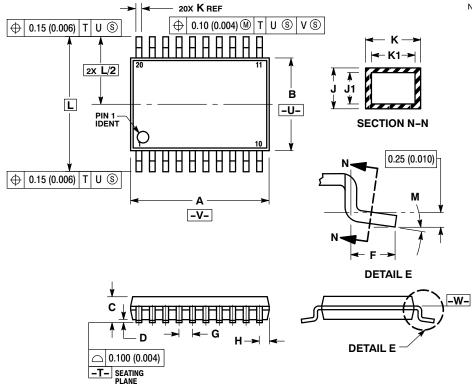
- NOTES:

  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.

	MILLIMETERS				
DIM	MIN	MAX			
Α	2.35	2.65			
A1	0.10	0.25			
В	0.35	0.49			
С	0.23	0.32			
D	12.65	12.95			
Е	7.40	7.60			
е	1.27	BSC			
Н	10.05	10.55			
h	0.25	0.75			
L	0.50	0.90			
θ	0 °	7 °			

#### PACKAGE DIMENSIONS

#### TSSOP-20 **DT SUFFIX** CASE 948E-02 **ISSUE C**



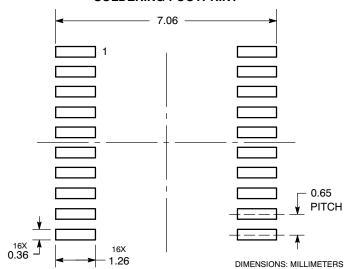
- NOTES:
  1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION:

  - 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.
  - SIDE.
    4. DIMENSION B DOES NOT INCLUDE INTERLEAD FLASH OR PROTRUSION. INTERLEAD FLASH OR PROTRUSION SHALL NOT EXCEED 0.25 (0.010) PER SIDE.
  - 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

  - 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-.

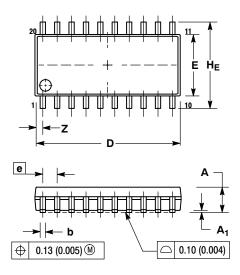
	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α	6.40	6.60	0.252	0.260
В	4.30	4.50	0.169	0.177
C		1.20		0.047
D	0.05	0.15	0.002	0.006
F	0.50	0.75	0.020	0.030
G	0.65 BSC		0.026 BSC	
Н	0.27	0.37	0.011	0.015
J	0.09	0.20	0.004	0.008
J1	0.09	0.16	0.004	0.006
K	0.19	0.30	0.007	0.012
K1	0.19	0.25	0.007	0.010
L	6.40 BSC		0.252 BSC	
M	0°	8°	0°	8°

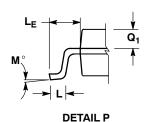
#### **SOLDERING FOOTPRINT**

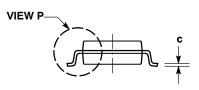


#### PACKAGE DIMENSIONS

#### SOEIAJ-20 **M SUFFIX** CASE 967-01 ISSUE A







#### NOTES:

- DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
  2. CONTROLLING DIMENSION: MILLIMETER.
- 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
- I. TERMINAL NUMBERS ARE SHOWN FOR REFERENCE ONLY.
- . 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).

	MILLIMETERS		INCHES	
DIM	MIN	MAX	MIN	MAX
Α		2.05		0.081
A <sub>1</sub>	0.05	0.20	0.002	0.008
b	0.35	0.50	0.014	0.020
C	0.15	0.25	0.006	0.010
D	12.35	12.80	0.486	0.504
Е	5.10	5.45	0.201	0.215
е	1.27 BSC		0.050 BSC	
HE	7.40	8.20	0.291	0.323
L	0.50	0.85	0.020	0.033
LE	1.10	1.50	0.043	0.059
M	0 °	10°	0 °	10°
Q <sub>1</sub>	0.70	0.90	0.028	0.035
Z		0.81		0.032

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