# imall

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## 74AC573, 74ACT573 Octal Latch with 3-STATE Outputs

#### Features

- I<sub>CC</sub> and I<sub>OZ</sub> reduced by 50%
- Inputs and outputs on opposite sides of package allowing easy interface with microprocessors
- Useful as input or output port for microprocessors
- Functionally identical to 74AC373 and 74ACT373
- 3-STATE outputs for bus interfacing
- Outputs source/sink 24mA
- 74ACT573 has TTL-compatible inputs

#### **General Description**

The 74AC573 and 74ACT573 are high-speed octal latches with buffered common Latch Enable (LE) and buffered common Output Enable (OE) inputs.

The 74AC573 and 74ACT573 are functionally identical to the 74AC373 and 74ACT373 but with inputs and outputs on opposite sides.

## **Ordering Information**

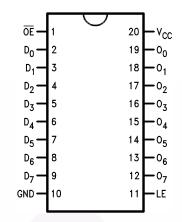
Order Number	Package Number	Poskara Description
Order Number	Number	Package Description
74AC573SC	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74AC573SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74AC573MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74ACT573SC	M20B	20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide
74ACT573SJ	M20D	20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide
74ACT573MTC	MTC20	20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide
74ACT573PC	N20A	20-Lead Plastic Dual-In-Line Package (PDIP), JEDEC MS-001, 0.300" Wide

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

All packages are lead free per JEDEC: J-STD-020B standard.

January 2008

## **Connection Diagram**



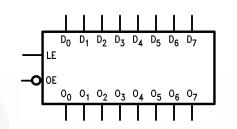
## **Pin Description**

Pin Names	Description
D <sub>0</sub> –D <sub>7</sub>	Data Inputs
LE	Latch Enable Input
ŌE	3-STATE Output Enable Input
O <sub>0</sub> –O <sub>7</sub>	3-STATE Latch Outputs

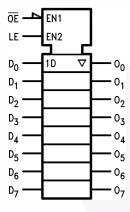
## **Functional Description**

The 74AC573 and 74ACT573 contain eight D-type latches with 3-STATE output buffers. When the Latch Enable (LE) input is HIGH, data on the D<sub>n</sub> inputs enters the latches. In this condition the latches are transparent, i.e., a latch output will change state each time its D-type input changes. When LE is LOW the latches store the information that was present on the D-type inputs a setup time preceding the HIGH-to-LOW transition of LE. The 3-STATE buffers are controlled by the Output Enable ( $\overline{OE}$ ) input. When  $\overline{OE}$  is LOW, the buffers are enabled. When  $\overline{OE}$  is HIGH the buffers are in the high impedance mode but this does not interfere with entering new data into the latches.

## Logic Symbols







## Truth Table

	Inputs	Outputs	
OE	LE	D	On
L	Н	Н	Н
L	Н	L	L
L	L	Х	O <sub>0</sub>
Н	Х	Х	Z

H = HIGH Voltage

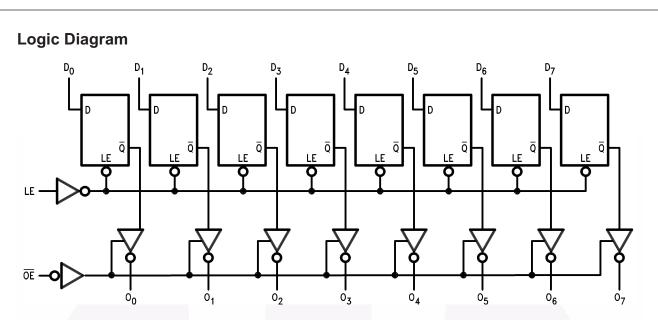
L = LOW Voltage

Z = High Impedance

X = Immaterial

 ${\rm O}_0 = {\rm Previous}\; {\rm O}_0$  before HIGH-to-LOW transition of Latch Enable





Please note that this diagram is provided only for the understanding of logic operations and should not be used to estimate propagation delays.

#### **Absolute Maximum Ratings**

Stresses exceeding the absolute maximum ratings may damage the device. The device may not function or be operable above the recommended operating conditions and stressing the parts to these levels is not recommended. In addition, extended exposure to stresses above the recommended operating conditions may affect device reliability. The absolute maximum ratings are stress ratings only.

Symbol	Parameter	Rating
V <sub>CC</sub>	Supply Voltage	-0.5V to +7.0V
I <sub>IK</sub>	DC Input Diode Current	
	$V_{I} = -0.5V$	–20mA
	$V_{I} = V_{CC} + 0.5$	+20mA
VI	DC Input Voltage	-0.5V to V <sub>CC</sub> + 0.5V
I <sub>OK</sub>	DC Output Diode Current	
	$V_{O} = -0.5V$	–20mA
	$V_{\rm O} = V_{\rm CC} + 0.5 V$	+20mA
Vo	DC Output Voltage	–0.5V to V <sub>CC</sub> + 0.5V
Ι <sub>Ο</sub>	DC Output Source or Sink Current	±50mA
I <sub>CC</sub> or I <sub>GND</sub>	DC V <sub>CC</sub> or Ground Current per Output Pin	±50mA
T <sub>STG</sub>	Storage Temperature	–65°C to +150°C
Τ <sub>J</sub>	Junction Temperature	140°C

#### **Recommended Operating Conditions**

The Recommended Operating Conditions table defines the conditions for actual device operation. Recommended operating conditions are specified to ensure optimal performance to the datasheet specifications. Fairchild does not recommend exceeding them or designing to absolute maximum ratings.

Symbol	Parameter	Rating
V <sub>CC</sub>	Supply Voltage	
	AC	2.0V to 6.0V
	ACT	4.5V to 5.5V
VI	Input Voltage	0V to V <sub>CC</sub>
V <sub>O</sub>	Output Voltage	0V to V <sub>CC</sub>
T <sub>A</sub>	Operating Temperature	–40°C to +85°C
$\Delta V / \Delta t$	Minimum Input Edge Rate, AC Devices:	125mV/ns
	$V_{\rm IN}$ from 30% to 70% of $V_{\rm CC}, V_{\rm CC}$ @ 3.3V, 4.5V, 5.5V	
$\Delta V / \Delta t$	Minimum Input Edge Rate, ACT Devices:	125mV/ns
	V <sub>IN</sub> from 0.8V to 2.0V, V <sub>CC</sub> @ 4.5V, 5.5V	

	Parameter			$T_A = \cdot$	+25°C	$T_A = -40^{\circ}C \text{ to } +85^{\circ}C$	
Symbol		V <sub>CC</sub> (V)	Conditions	Тур. G		uaranteed Limits	Units
V <sub>IH</sub>	Minimum HIGH Level	3.0	$V_{OUT} = 0.1V \text{ or}$	1.5	2.1	2.1	V
	Input Voltage	4.5	V <sub>CC</sub> – 0.1V	2.25	3.15	3.15	-
		5.5		2.75	3.85	3.85	-
V <sub>IL</sub>	Maximum LOW Level	3.0	$V_{OUT} = 0.1V$ or	1.5	0.9	0.9	V
	Input Voltage	4.5	V <sub>CC</sub> – 0.1V	2.25	1.35	1.35	
		5.5		2.75	1.65	1.65	
V <sub>OH</sub>	Minimum HIGH Level	3.0	Ι <sub>ΟUT</sub> = –50μΑ	2.99	2.9	2.9	V
	Output Voltage	4.5		4.49	4.4	4.4	
		5.5		5.49	5.4	5.4	
		3.0	$V_{IN} = V_{IL}$ or $V_{IH}$ , $I_{OH} = -12mA$		2.56	2.46	
		4.5	$V_{IN} = V_{IL}$ or $V_{IH}$ , $I_{OH} = -24mA$		3.86	3.76	
	5	5.5	$V_{IN} = V_{IL}$ or $V_{IH}$ , $I_{OH} = -24 \text{mA}^{(1)}$		4.86	4.76	
V <sub>OL</sub>	V <sub>OL</sub> Maximum LOW Level	3.0	Ι <sub>ΟUT</sub> = 50μΑ	0.002	0.1	0.1	V
	Output Voltage	4.5		0.001	0.1	0.1	
		5.5		0.001	0.1	0.1	
		3.0	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 12 \text{mA}$		0.36	0.44	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24 \text{mA}$		0.36	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24 \text{mA}^{(1)}$		0.36	0.44	
I <sub>IN</sub> <sup>(2)</sup>	Maximum Input Leakage Current	5.5	$V_{I} = V_{CC}, \text{ GND}$		±0.1	±1.0	μA
I <sub>OLD</sub>	Minimum Dynamic	5.5	V <sub>OLD</sub> = 1.65V Max.			75	mA
I <sub>OHD</sub>	Output Current <sup>(3)</sup>	5.5	V <sub>OHD</sub> = 3.85V Min.			-75	mA
I <sub>CC</sub> <sup>(2)</sup>	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		4.0	40.0	μA
I <sub>OZ</sub>	Maximum 3-STATE Leakage Current	5.5			±0.25	±2.5	μA

### **DC Electrical Characteristics for AC**

#### Notes:

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

2. I<sub>IN</sub> and I<sub>CC</sub> @ 3.0V are guaranteed to be less than or equal to the respective limit @ 5.5V V<sub>CC</sub>.

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

				T <sub>A</sub> = +25°C		T <sub>A</sub> = -40°C to +85°C	
Symbol	Parameter	V <sub>CC</sub> (V)	Conditions	Тур.	G	uaranteed Limits	Units
V <sub>IH</sub>	Minimum HIGH Level	4.5	$V_{OUT} = 0.1V$ or	1.5	2.0	2.0	V
	Input Voltage	5.5	V <sub>CC</sub> – 0.1V	1.5	2.0	2.0	
V <sub>IL</sub>	Maximum LOW	4.5	$V_{OUT} = 0.1V$ or	1.5	0.8	0.8	V
	Level Input Voltage $5.5$ V <sub>CC</sub> – 0.1V	V <sub>CC</sub> – 0.1V	1.5	0.8	0.8		
V <sub>OH</sub>	$V_{OH}$ Minimum HIGH Level 4.5 $I_{OUT} = -50 \mu A$ Output Voltage 5.5	4.49	4.4	4.4	V		
		5.5		5.49	5.4	5.4	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24 \text{mA}$		3.86	3.76	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OH} = -24 \text{mA}^{(4)}$		4.86	4.76	
V <sub>OL</sub> Maximum LOW		4.5	Ι <sub>ΟUT</sub> = 50μΑ	0.001	0.1	0.1	V
	Level Output Voltage	5.5		0.001	0.1	0.1	
		4.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24 \text{mA}$		0.36	0.44	
		5.5	$V_{IN} = V_{IL} \text{ or } V_{IH},$ $I_{OL} = 24 \text{mA}^{(4)}$		0.36	0.44	
I <sub>IN</sub>	Maximum Input Leakage Current	5.5	$V_I = V_{CC}$ , GND		±0.1	±1.0	μA
I <sub>OZ</sub>	Maximum 3-STATE Leakage Current	5.5	$V_{I} = V_{IL}, V_{IH};$ $V_{O} = V_{CC}, \text{ GND}$		±0.25	±2.5	μA
I <sub>CCT</sub>	Maximum I <sub>CC</sub> /Input	5.5	$V_{I} = V_{CC} - 2.1V$	0.6		1.5	mA
I <sub>OLD</sub>	Minimum Dynamic	5.5	$V_{OLD} = 1.65V$ Max.			75	mA
I <sub>OHD</sub>	Output Current <sup>(5)</sup>	5.5	V <sub>OHD</sub> = 3.85V Min.			-75	mA
I <sub>CC</sub>	Maximum Quiescent Supply Current	5.5	$V_{IN} = V_{CC}$ or GND		4.0	40.0	μA

#### **E** 11 4 . . al Characteristics for ACT

#### Notes:

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

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

## **AC Electrical Characteristics for AC**

			$\begin{array}{c} T_{A}=+25^{\circ}C,\\ C_{L}=50pF \end{array}$		$T_{A} = -40^{\circ}C \text{ to } +85^{\circ}C,$ $C_{L} = 50\text{pF}$			
Symbol	Parameter	V <sub>CC</sub> (V) <sup>(6)</sup>	Min.	Тур.	Max.	Min.	Max.	Units
t <sub>PHL</sub> , t <sub>PLH</sub>	Propagation Delay,	3.3	0.5	8.5	10.5	2.5	11.0	ns
	D <sub>n</sub> to O <sub>n</sub>	5.0	1.5	5.5	7.0	1.5	7.5	1
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay,	3.3	2.5	8.5	12.0	2.5	12.5	ns
	LE to O <sub>n</sub>	5.0	2.0	6.0	8.0	2.0	8.5	1
t <sub>PZL</sub> , t <sub>PZH</sub>	Output Enable Time	3.3	2.5	8.5	13.0	2.5	13.5	ns
		5.0	1.5	6.0	8.5	1.5	9.0	1
t <sub>PHZ</sub> , t <sub>PLZ</sub>	Output Disable Time	3.3	1.0	9.0	14.5	1.0	15.0	ns
		5.0	1.0	6.0	9.5	1.0	10.0	1

#### Note:

6. Voltage range 5.0 is 5.0V  $\pm$  0.5V. Voltage range 3.3 is 3.3V  $\pm$  0.3V.

## AC Operating Requirements for AC

			T <sub>A</sub> =	+25°C, = 50pF	$T_{A} = -40^{\circ}C \text{ to } +85^{\circ}C,$ $C_{L} = 50pF$	
Symbol	Parameter	V <sub>CC</sub> (V) <sup>(</sup>	<sup>7)</sup> Typ.	Gu	aranteed Minimum	Units
t <sub>S</sub>	Setup Time, HIGH or LOW,	3.3	0	3.0	3.0	ns
	D <sub>n</sub> to LE	5.0	0	3.0	3.0	
t <sub>H</sub>	Hold Time, HIGH or LOW,	3.3	0	1.5	1.5	ns
	D <sub>n</sub> to LE	5.0	0	1.5	1.5	
t <sub>W</sub>	LE Pulse Width, HIGH	3.3	2.0	4.0	4.0	ns
		5.0	2.0	4.0	4.0	

#### Note:

7. Voltage range 5.0 is 5.0V  $\pm$  0.5V. Voltage range 3.3 is 3.3V  $\pm$  0.3V.

## **AC Electrical Characteristics for ACT**

			T <sub>A</sub> = +25°C, C <sub>L</sub> = 50pF		$\label{eq:T_A} \begin{split} T_A = -40^\circ C \ to \ +85^\circ C, \\ C_L = 50 pF \end{split}$			
Symbol	Parameter	V <sub>CC</sub> (V) <sup>(8)</sup>	Min.	Тур.	Max.	Min.	Max.	Units
t <sub>PLH</sub> , t <sub>PHL</sub>	Propagation Delay, $D_n$ to $O_n$	5.0	2.5	6.0	10.5	2.0	12.0	ns
t <sub>PLH</sub>	Propagation Delay, LE to O <sub>n</sub>	5.0	3.0	6.0	10.5	2.5	12.0	ns
t <sub>PHL</sub>	Propagation Delay, LE to O <sub>n</sub>	5.0	2.5	5.5	9.5	2.0	10.5	ns
t <sub>PZH</sub>	Output Enable Time	5.0	2.0	5.5	10.0	1.5	11.0	ns
t <sub>PZL</sub>	Output Enable Time	5.0	1.5	5.5	9.5	1.5	10.5	ns
t <sub>PHZ</sub>	Output Disable Time	5.0	2.5	6.5	11.0	1.5	12.5	ns
t <sub>PLZ</sub>	Output Disable Time	5.0	1.5	5.0	8.5	1.0	9.5	ns

#### Note:

8. Voltage range 5.0 is  $5.0V \pm 0.5V$ .

## **AC Operating Requirements for ACT**

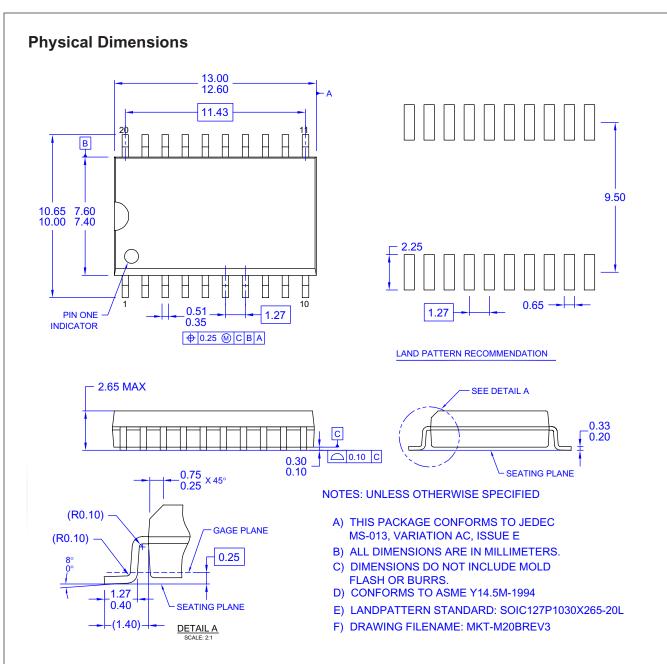
			T <sub>A</sub> = +25°C, C <sub>L</sub> = 50pF		$T_A = -40^{\circ}C \text{ to } +85^{\circ}C,$ $C_L = 50\text{pF}$	
Symbol	Parameter	V <sub>CC</sub> (V) <sup>(9)</sup>	Тур.	Gua	aranteed Minimum	Units
t <sub>S</sub>	Setup Time, HIGH or LOW, D <sub>n</sub> to LE	5.0	1.5	3.0	3.5	ns
t <sub>H</sub>	Hold Time, HIGH or LOW, D <sub>n</sub> to LE	5.0	-1.5	0	0	ns
t <sub>W</sub>	LE Pulse Width, HIGH	5.0	2.0	3.5	4.0	ns

#### Note:

9. Voltage range 5.0 is  $5.0V \pm 0.5V$ .

## Capacitance

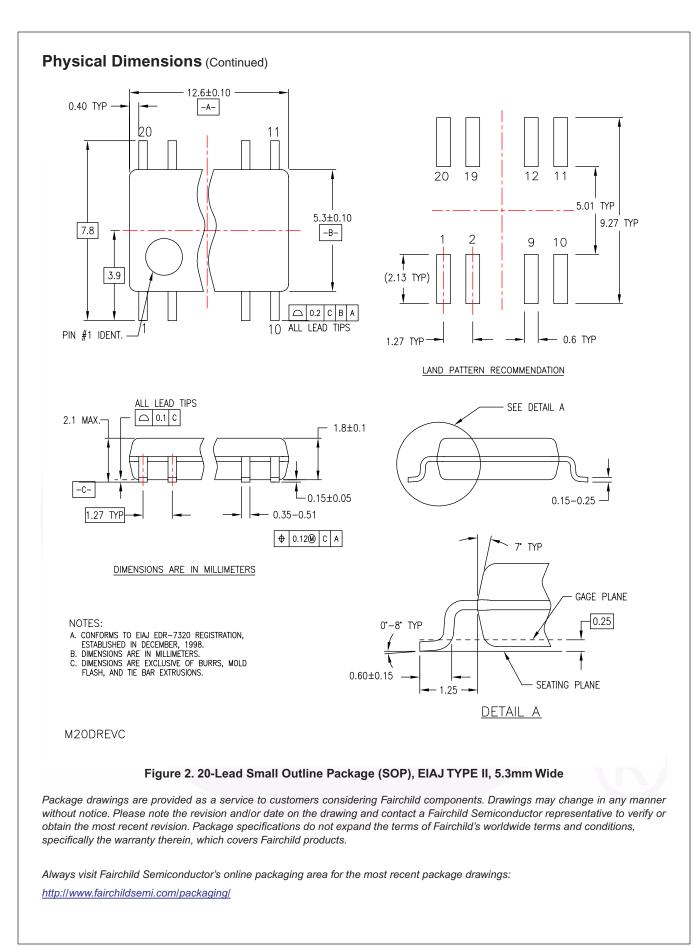
Symbol	Parameter	Conditions	Тур.	Units
C <sub>IN</sub>	Input Capacitance	V <sub>CC</sub> = OPEN	5.0	pF
C <sub>PD</sub>	Power Dissipation Capacitance	$V_{CC} = 5.0V$		
	AC		25.0	pF
	ACT		42.0	

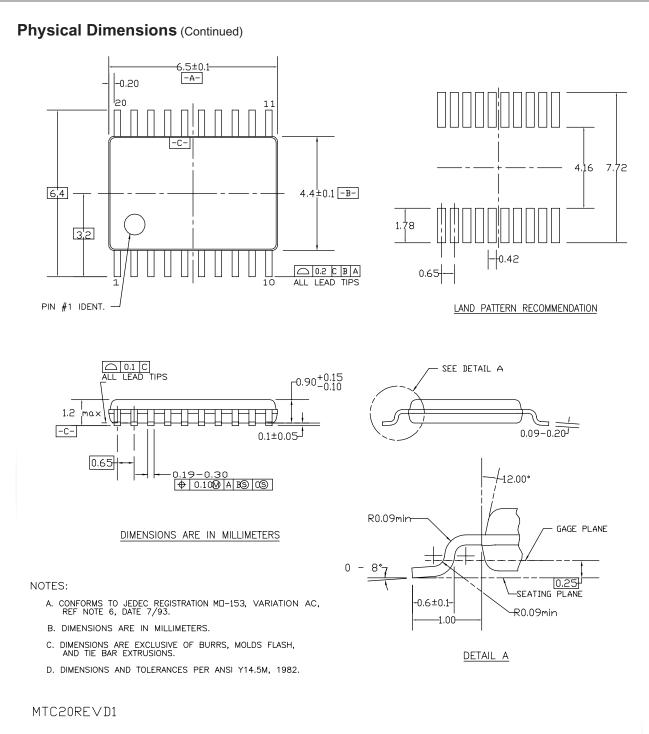


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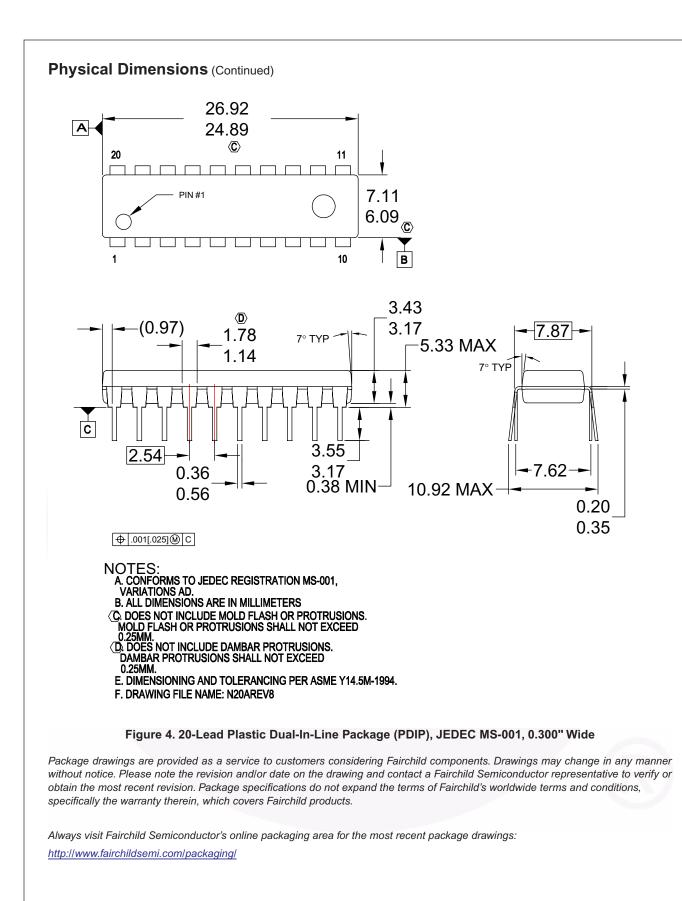
#### Figure 3. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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