# imall

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### Low-Voltage CMOS Octal Transparent Latch

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

The 74LVC573A is a high performance, non-inverting octal transparent latch operating from a 1.2 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<sub>I</sub> specification of 5.5 V allows 74LVC573A inputs to be safely driven from 5 V devices.

The 74LVC573A 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.

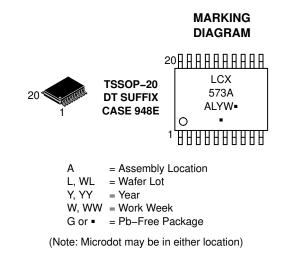
#### Features

- Designed for 1.2 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  $V_{CC} = 0$  V
- 24 mA Output Sink and Source Capability
- Near Zero Static Supply Current in all Three Logic States (10 µA) Substantially Reduces System Power Requirements
- ESD Performance:
  - ♦ Human Body Model >2000 V
  - Machine Model >200 V
- These Devices are Pb–Free, Halogen Free/BFR Free and are RoHS Compliant



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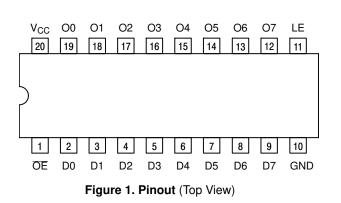
www.onsemi.com



#### **ORDERING INFORMATION**

See detailed ordering and shipping information on page 8 of this data sheet.

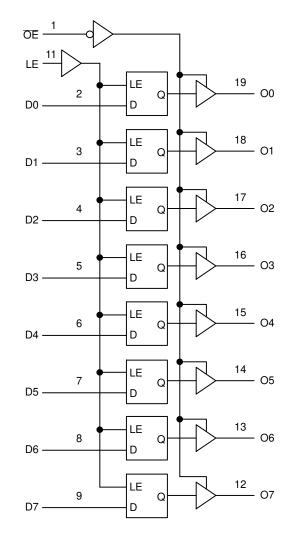
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#### **PIN NAMES**

**TRUTH TABLE** 

Pins	Function
ŌĒ	Output Enable Input
LE	Latch Enable Input
D0-D7	Data Inputs
00–07	3-State Latch Outputs





#### Inputs Outputs OE LE Dn On **Operating Mode** L Н н Н Transparent (Latch Disabled); Read Latch Н L L L Н Latched (Latch Enabled) Read Latch L L h L L I L L Х NC L Hold; Read Latch Х Ζ Н L Hold; Disabled Outputs Н Н Ζ Н Transparent (Latch Disabled); Disabled Outputs Ζ Н Н L Z Z Н L h Latched (Latch Enabled); Disabled Outputs L Н 1

H = High Voltage Level

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

L = 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	Condition	Value	Unit
Vcc	DC Supply Voltage		-0.5 to +6.5	V
Vı	DC Input Voltage		$-0.5 \leq V_l \leq +6.5$	V
Vo	DC Output Voltage	Output in 3-State	$-0.5 \le V_O \le +6.5$	V
		Output in HIGH or LOW State (Note 1)	$-0.5 \le V_O \le V_{CC} + 0.5$	V
liк	DC Input Diode Current	V <sub>I</sub> < GND	-50	mA
Іок	DC Output Diode Current	V <sub>o</sub> < GND	-50	mA
		V <sub>O</sub> > V <sub>CC</sub>	+50	mA
Ι <sub>Ο</sub>	DC Output Source/Sink Current		±50	mA
Icc	DC Supply Current Per Supply Pin		±100	mA
Ignd	DC Ground Current Per Ground Pin		±100	mA
TSTG	Storage Temperature Range		-65 to +150	°C
Τ <sub>L</sub>	Lead Temperature, 1 mm from Case for 10 Seconds		T <sub>L</sub> = 260	°C
TJ	Junction Temperature Under Bias		T <sub>J</sub> = 135	°C
θJA	Thermal Resistance (Note 2)		110.7	°C/W
MSL	Moisture Sensitivity	Level 1		

Stresses exceeding those listed in the Maximum Ratings table may damage the device. If any of these limits are exceeded, device functionality should not be assumed, damage may occur and reliability may be affected.
1. I<sub>o</sub> absolute maximum rating must be observed.
2. Measured with minimum pad spacing on an FR4 board, using 10 mm-by-1 inch, 2 ounce copper trace no air flow.

#### **RECOMMENDED OPERATING CONDITIONS**

Symbol	Parameter	Min	Тур	Max	Unit
V <sub>CC</sub>	Supply Voltage Operating Functional	1.65 1.2		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 $V_{CC} = 3.0 \text{ V} - 3.6 \text{ V} V_{CC} = 2.7 \text{ V} - 3.0 \text{ V}$			-24 -12	mA
I <sub>OL</sub>	LOW Level Output Current $V_{CC} = 3.0 \text{ V} - 3.6 \text{ V} V_{CC} = 2.7 \text{ V} - 3.0 \text{ V}$			24 12	mA
T <sub>A</sub>	Operating Free–Air Temperature	-40		+125	°C
$\Delta t / \Delta V$	Input Transition Rise or Fall Rate, $V_{CC} = 1.65$ to 2.7 V $V_{CC} = 2.7$ to 3.6 V	0 0		20 10	ns/V

Functional operation above the stresses listed in the Recommended Operating Ranges is not implied. Extended exposure to stresses beyond the Recommended Operating Ranges limits may affect device reliability.

#### DC ELECTRICAL CHARACTERISTICS

			–40 to +85°C			–40 to +125°C			
Symbol	Parameter	Conditions	Min	<b>Typ</b> (Note 3)	Мах	Min	<b>Typ</b> (Note 3)	Max	Unit
VIH	HIGH-level input voltage	V <sub>CC</sub> = 1.2 V	1.08	-	-	1.08	-	_	V
		V <sub>CC</sub> = 1.65 V to 1.95 V	0.65 x V <sub>CC</sub>	-	-	0.65 x V <sub>CC</sub>	-	-	
		$V_{CC}$ = 2.3 V to 2.7 V	1.7	-	-	1.7	-	-	
		V <sub>CC</sub> = 2.7 V to 3.6 V	2.0	-	I	2.0	-	-	
VIL	LOW-level input voltage	V <sub>CC</sub> = 1.2 V	-	-	0.12	-	-	0.12	V
		V <sub>CC</sub> = 1.65 V to 1.95 V	-	-	0.35 x V <sub>CC</sub>	-	-	0.35 x V <sub>CC</sub>	
		V <sub>CC</sub> = 2.3 V to 2.7 V	-	-	0.7	-	-	0.7	
		V <sub>CC</sub> = 2.7 V to 3.6 V	-	-	0.8	-	-	0.8	
Vон	HIGH-level output voltage	V <sub>I</sub> = V <sub>IH</sub> c	or V <sub>IL</sub>						V
		$I_O = -100 \ \mu\text{A};$ $V_{CC} = 1.65 \ \text{V} \ \text{to} \ 3.6 \ \text{V}$	V <sub>CC</sub> - 0.2	-	-	V <sub>CC</sub> - 0.3	-	_	
		l <sub>O</sub> = -4 mA; V <sub>CC</sub> = 1.65 V	1.2	-	-	1.05	-	-	
		$I_{O} = -8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	1.8	-	-	1.65	-	-	
		$I_{O} = -12 \text{ mA}; V_{CC} = 2.7 \text{ V}$	2.2	-	-	2.05	-	-	
		$I_{O} = -18 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.4	-	-	2.25	-	-	
		$I_{O} = -24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	2.2	-	-	2.0	-	-	
VOL	LOW-level output voltage	$V_{I} = V_{IH} O$	r V <sub>IL</sub>						V
		$I_{O}$ = 100 µA; V <sub>CC</sub> = 1.65 V to 3.6 V	-	-	0.2	-	-	0.3	
		$I_{O} = 4 \text{ mA}; V_{CC} = 1.65 \text{ V}$	-	-	0.45	-	-	0.65	
		$I_{O} = 8 \text{ mA}; V_{CC} = 2.3 \text{ V}$	-	-	0.6	-	-	0.8	
		$I_{O}$ = 12 mA; $V_{CC}$ = 2.7 V	-	-	0.4	-	-	0.6	
		$I_{O} = 24 \text{ mA}; V_{CC} = 3.0 \text{ V}$	-	-	0.55	-	-	0.8	
I,	Input leakage current	$V_1 = 5.5 V \text{ or GND};$ $V_{CC} = 3.6 V$	-	±0.1	±5	-	±0.1	±20	μA
loz	OFF-state output current	$\label{eq:VI} \begin{array}{l} VI = VIH \text{ or } VIL;\\ V_{O} = 5.5 \text{ V or } GND;\\ V_{CC} = 3.6 \text{ V} \end{array}$	-	±0.1	±5	-	±0.1	±20	μA
IOFF	Power-off leakage current	$V_{I} \text{ or } V_{O} = 5.5 \text{ V}; V_{CC} = 0.0 \text{ V}$	-	±0.1	±10	-	±0.1	±20	μA
ICC	Supply current	$V_{I} = V_{CC} \text{ or GND; } I_{O} = 0 \text{ A;}$ $V_{CC} = 3.6 \text{ V}$	-	0.1	10	-	0.1	40	μA
ΔICC	Additional supply current	per input pin; $V_I = V_{CC} - 0.6 \text{ V}; I_O = 0 \text{ A};$ $V_{CC} = 2.7 \text{ V} \text{ to } 3.6 \text{ V}$	-	5	500	-	5	5000	μΑ

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product performance may not be indicated by the Electrical Characteristics if operated under different conditions. 3. All typical values are measured at  $T_A = 25^{\circ}$ C and  $V_{CC} = 3.3$  V, unless stated otherwise.

#### AC ELECTRICAL CHARACTERISTICS ( $t_R = t_F = 2.5 \text{ ns}$ )

			-	40 to +85°	°C	–40 to +125°C			
Symbol	Parameter	Conditions	Min	<b>Typ</b> (Note 4)	Мах	Min	<b>Typ</b> (Note 4)	Мах	Unit
tpd	Propagation Delay (Note 5)	V <sub>CC</sub> = 1.2 V	-	16.0	-	-	-	-	
	Dn to On	V <sub>CC</sub> = 1.65 V to 1.95 V	2.1	7.8	16.3	2.1	-	18.8	
		V <sub>CC</sub> = 2.3 V to 2.7 V	1.5	4.1	8.0	1.5	-	9.2	ns
		V <sub>CC</sub> = 2.7 V	1.5	4.1	7.2	1.5	-	9.0	
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	1.5	3.4	6.2	1.5	-	8.0	
tpd	Propagation Delay	V <sub>CC</sub> = 1.2 V	-	16.0	-	-	-	-	
	LE to On	V <sub>CC</sub> = 1.65 V to 1.95 V	2.0	7.7	16.0	2.0	-	18.4	
		$V_{CC}$ = 2.3 V to 2.7 V	1.5	4.1	7.8	1.5	-	9.1	ns
		V <sub>CC</sub> = 2.7 V	1.5	3.7	7.5	1.5	-	9.5	
		$V_{CC} = 3.0 \text{ V} \text{ to } 3.6 \text{ V}$	1.5	3.4	6.5	1.5	-	8.5	1
ten	Enable Time (Note 6)	V <sub>CC</sub> = 1.2 V	-	18.0	-	-	-	-	
	OE to On	V <sub>CC</sub> = 1.65 V to 1.95 V	1.7	7.5	17.5	1.7	-	20.2	ns
		$V_{CC}$ = 2.3 V to 2.7 V	1.5	4.2	9.2	1.5	-	10.6	
		V <sub>CC</sub> = 2.7 V	1.5	4.2	8.5	1.5	-	11.0	
		$V_{CC}$ = 3.0 V to 3.6 V	1.5	3.4	7.5	1.5	-	9.5	1
tdis	Disable Time (Note 7) OE to On	V <sub>CC</sub> = 1.2 V	-	8.0	_	_	-	_	
		V <sub>CC</sub> = 1.65 V to 1.95 V	1.0	3.3	10.1	1.0	-	11.6	1
		$V_{CC}$ = 2.3 V to 2.7 V	0.3	1.8	5.7	0.3	-	6.6	n
		V <sub>CC</sub> = 2.7 V	1.5	3.0	6.5	1.5	-	8.5	1
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.5	2.5	6.0	1.5	-	7.5	
tw	Pulse Width LE HIGH	V <sub>CC</sub> = 1.65 V to 1.95 V	5.0	-	-	5.0	-	-	
		$V_{CC}$ = 2.3 V to 2.7 V	4.0	-	-	4.0	-	-	
		V <sub>CC</sub> = 2.7 V	3.2	-	-	3.2	-	-	n
		$V_{CC}$ = 3.0 V to 3.6 V	3.2	1.6	-	3.2	-	-	
tsu	Set–up Time Dn to LE	V <sub>CC</sub> = 1.65 V to 1.95 V	4.0	-	-	4.0	-	-	
		$V_{CC}$ = 2.3 V to 2.7 V	2.5	-	-	2.5	-	-	
		V <sub>CC</sub> = 2.7 V	1.7	-	-	1.7	-	-	n
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.7	-	-	1.7	-	-	
th	Hold Time Dn to LE	V <sub>CC</sub> = 1.65 V to 1.95 V	3.0	-	-	3.0	-	-	
		$V_{CC}$ = 2.3 V to 2.7 V	1.9	-	-	1.9	-	-	
		V <sub>CC</sub> = 2.7 V	1.5	-	-	1.5	-	-	ns
		V <sub>CC</sub> = 3.0 V to 3.6 V	1.4	-	-	1.4	-	-	1
tsk(0)	Output Skew Time (Note 8)		-	_	1.0	_	_	1.5	ns

Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted. Product Product parametric performance is indicated in the Electrical Characteristics for the listed test conditions, unless otherwise noted performance may not be indicated by the Electrical Characteristics if operated under different conditions. 4. Typical values are measured at Ta = 25°C and Vcc = 3.3 V, unless stated otherwise. 5.  $t_{pd}$  is the same as  $t_{PLH}$  and  $t_{PHL}$ . 6.  $t_{en}$  is the same as  $t_{PZL}$  and  $t_{PZH}$ . 7.  $t_{dis}$  is the same as  $t_{PLZ}$  and  $t_{PHZ}$ . 8. Skew between any two outputs of the same package switching in the same direction. This parameter is guaranteed by design.

#### DYNAMIC SWITCHING CHARACTERISTICS

			T <sub>A</sub> = +25°C		;	
Symbol	Characteristic	Condition	Min	Тур	Max	Unit
VOLP	Dynamic LOW Peak Voltage (Note 9)			0.8 0.6		V
Volv	Dynamic LOW Valley Voltage (Note 9)	$ \begin{array}{l} {\sf V}_{CC} = 3.3 \; {\sf V}, \; {\sf C}_L = 50 \; {\sf pF}, \; {\sf V}_{IH} = 3.3 \; {\sf V}, \; {\sf V}_{IL} = 0 \; {\sf V} \\ {\sf V}_{CC} = 2.5 \; {\sf V}, \; {\sf C}_L = 30 \; {\sf pF}, \; {\sf V}_{IH} = 2.5 \; {\sf V}, \; {\sf V}_{IL} = 0 \; {\sf V} \end{array} $		-0.8 -0.6		V

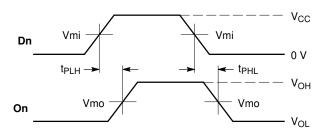
9. Number of outputs defined as "n". Measured with "n-1" outputs switching from HIGH-to-LOW or LOW-to-HIGH. The remaining output is measured in the LOW state.

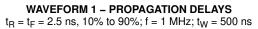
#### **CAPACITIVE CHARACTERISTICS**

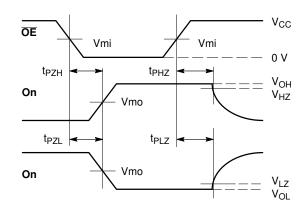
Symbol	Parameter	Condition	Typical	Unit
CIN	Input Capacitance	$V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	5.0	pF
COUT	Output Capacitance	$V_{CC}$ = 3.3 V, $V_{I}$ = 0 V or $V_{CC}$	6.0	pF
CPD	Power Dissipation Capacitance	Per flip–flop; V <sub>I</sub> = GND	or V <sub>CC</sub>	pF
	(Note 10)	V <sub>CC</sub> = 1.65 V to 1.95 V	7.1	
		$V_{CC}$ = 2.3 V to 2.7 V	10.3	
		V <sub>CC</sub> = 3.0 V to 3.6 V	13.2	1

10. CPD is used to determine the dynamic power dissipation (PD in  $\mu W).$ 

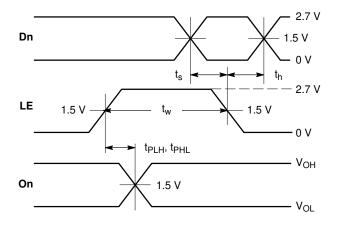
$$\begin{split} \mathsf{P}_{\mathsf{D}} &= \mathsf{C}_{\mathsf{PD}} \times \mathsf{V}_{\mathsf{CC}}^{2} \times \mathsf{fi} \times \mathsf{N} + \Sigma \big(\mathsf{C}_{\mathsf{L}} \times \mathsf{V}_{\mathsf{CC}}^{2} \times \mathsf{fo}\big) \text{ where:} \\ \mathsf{fi} &= \mathsf{input} \text{ frequency in MHz; fo = output frequency in MHz} \\ \mathsf{C}_{\mathsf{L}} &= \mathsf{output} \text{ load capacitance in pF} \\ \mathsf{V}_{\mathsf{CC}} &= \mathsf{supply voltage in Volts} \\ \mathsf{N} &= \mathsf{number} \text{ of outputs switching} \\ \Sigma (\mathsf{C}_{\mathsf{L}} \times \mathsf{V}_{\mathsf{CC}}^{2} \times \mathsf{fo}) &= \mathsf{sum of the outputs} \end{split}$$







**WAVEFORM 2 – OUTPUT ENABLE AND DISABLE TIMES**  $t_B = t_F = 2.5$  ns, 10% to 90%; f = 1 MHz;  $t_W = 500$  ns

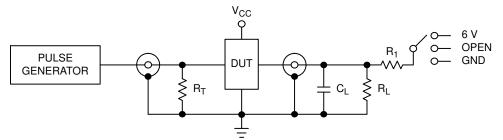


	V <sub>cc</sub>					
Symbol	3.3 V $\pm$ 0.3 V	2.7 V	V <sub>CC</sub> < 2.7 V			
Vmi	1.5 V	1.5 V	V <sub>CC</sub> /2			
Vmo	1.5 V	1.5 V	V <sub>CC</sub> /2			
V <sub>HZ</sub>	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 0.3 V	V <sub>OL</sub> + 0.15 V			
$V_{LZ}$	V <sub>OH</sub> – 0.3 V	V <sub>OH</sub> – 0.3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



 $^{C}{}_{L}$  includes jig and probe capacitance  $R_{T}$  =  $Z_{OUT}$  of pulse generator (typically 50  $\Omega)$   $R_{1}$  =  $R_{L}$ 

Supply Voltage	Inp	out	Lo	ad		VEXT	
V <sub>CC</sub> (V)	VI	t <sub>r</sub> , t <sub>f</sub>	C∟	RL	tPLH, tPHL	tPLZ, tPZL	tphz, tpzh
1.2	V <sub>CC</sub>	≤2 ns	30 pF	1 kΩ	Open	$2 \times V_{CC}$	GND
1.65 – 1.95	V <sub>CC</sub>	≤2 ns	30 pF	1 kΩ	Open	$2 \times V_{CC}$	GND
2.3 – 2.7	V <sub>CC</sub>	$\leq$ 2 ns	30 pF	500 Ω	Open	$2 \times V_{CC}$	GND
2.7	2.7 V	≤ 2.5 ns	50 pF	500 Ω	Open	$2 \times V_{CC}$	GND
3.0 – 3.6	2.7 V	$\leq$ 2.5 ns	50 pF	500 Ω	Open	2 x V <sub>CC</sub>	GND

Figure 4. Test Circuit

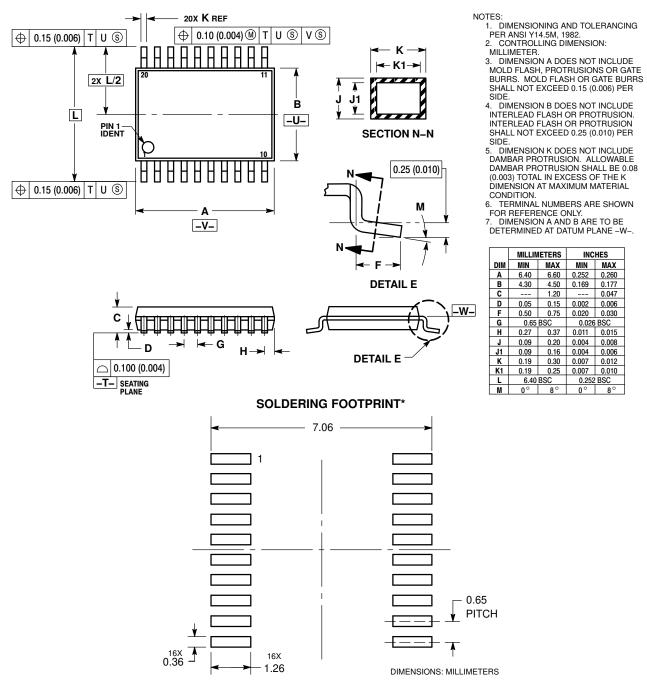
#### ORDERING INFORMATION

Device	Package	Shipping <sup>†</sup>
74LVC573ADTR2G	TSSOP-20 (Pb-Free)	2500 / Tape & Reel

+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.

#### PACKAGE DIMENSIONS

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



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

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