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December 2013



74LCX541 Low Voltage Octal Buffer/Line Driver with 5V Tolerant Inputs and Outputs

Features

- 5V tolerant input and outputs
- 2.3V–3.6V V_{CC} specifications provided
- 6.5ns t_{PD} max (V_{CC} = 3.3V), 10µA I_{CC} max
- Power-down high impedance inputs and outputs
- Supports live insertion/withdrawal⁽¹⁾
- ±24 mA output drive ($V_{CC} = 3.0V$)
- Implements proprietary noise/ EMI reduction circuitry
- Latch-up performance exceeds JEDEC 78 conditions
- ESD performance
 - Human body model > 2000V
 - Machine model > 200V
- Leadless DQFN package

Note:

 To ensure the high impedance state during power up or down, OE should be tied to V_{CC} through a pull-up resistor: the minimum value of the resistor is determined by the current-sourcing capability of the driver.

General Description

The LCX541 is an octal buffer/line driver designed to be employed as memory and address drivers, clock drivers and bus oriented transmitter/receivers. The LCX541 is a non inverting option of the LCX540.

This device is similar in function to the LCX244 while providing flow-through architecture (inputs on opposite side from outputs). This pinout arrangement makes this device especially useful as an output port for microprocessors, allowing ease of layout and greater PC board density.

The LCX541 is designed for low voltage applications with capability of interfacing to a 5V signal environment. The LCX541 is fabricated with an advanced CMOS technology to achieve high speed operation while maintaining CMOS low power dissipation.

| Order Number | Package Number | Package Description |
|----------------------------|-------------------|---|
| 74LCX541WM | M20B | 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide |
| 74LCX541SJ | M20D | 20-Lead Small Outline Package (SOP), EIAJ TYPE II, 5.3mm Wide |
| 74LCX541BQX ⁽²⁾ | MLP20B | 20-Terminal Depopulated Quad Very-Thin Flat Pack No Leads (DQFN), JEDEC MO-241, 2.5 x 4.5mm |
| 74LCX541MSA | MSA20 | 20-Lead Shrink Small Outline Package (SSOP), JEDEC MO-150, 5.3mm Wide |
| 74LCX541MTC | MTC20 | 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide |

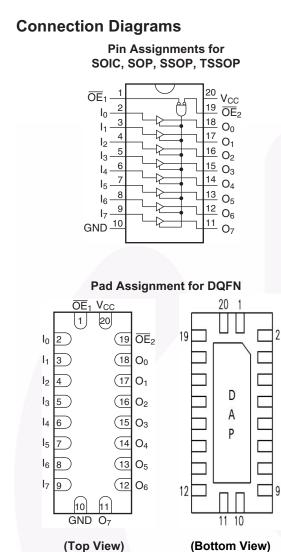
Ordering Information

Note:

2. DQFN package available in Tape and Reel only.

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.



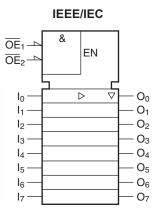
(Top View)

Pin Descriptions

| Pin Names | Description |
|------------------------------------|------------------------------|
| $\overline{OE}_1, \overline{OE}_2$ | 3-STATE Output Enable Inputs |
| I ₀ -I ₇ | Inputs |
| O ₀ -O ₇ | Outputs |
| DAP | No Connect |

Note: DAP (Die Attach Pad)

Logic Symbol



Truth Table

| | Outputs | | |
|-----------------|-----------------|---|----|
| OE ₁ | OE ₂ | I | On |
| L | L | Н | Н |
| Н | Х | Х | Z |
| Х | Н | Х | Z |
| L | L | L | L |

H = HIGH Voltage Level

L = LOW Voltage Level

X = Immaterial

Z = High Impedance

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 | Conditions | Value | Units |
|------------------|----------------------------------|--|-------------------------------|-------|
| V _{CC} | Supply Voltage | | -0.5 to +7.0 | V |
| VI | DC Input Voltage | | -0.5 to +7.0 | V |
| Vo | DC Output Voltage | Output in 3-STATE | -0.5 to +7.0 | V |
| | | Output in HIGH or LOW State ⁽³⁾ | -0.5 to V _{CC} + 0.5 | |
| I _{IK} | DC Input Diode Current | V _I < GND | -50 | mA |
| I _{ОК} | DC Output Diode Current | V _O < GND | -50 | mA |
| | | $V_{O} > V_{CC}$ | +50 | |
| ۱ ₀ | DC Output Source/Sink Current | | ±50 | mA |
| I _{CC} | DC Supply Current per Supply Pin | | ±100 | mA |
| I _{GND} | DC Ground Current per Ground Pin | | ±100 | mA |
| T _{STG} | Storage Temperature | | -65 to +150 | °C |

Recommended Operating Conditions⁽⁴⁾

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 | Conditions | Min. | Max. | Units |
|----------------------------------|--------------------------------|---------------------------------------|------|-----------------|-------|
| V _{CC} | Supply Voltage | Operating | 2.0 | 3.6 | V |
| | | Data Retention | 1.5 | 3.6 | |
| VI | Input Voltage | | 0 | 5.5 | V |
| V _O | Output Voltage | HIGH or LOW State | 0 | V _{CC} | V |
| | | 3-STATE | 0 | 5.5 | |
| I _{OH} /I _{OL} | Output Current | V _{CC} = 3.0V–3.6V | | ±24 | mA |
| | | V _{CC} = 2.7V–3.0V | | ±12 | |
| | | V _{CC} = 2.3V–2.7V | | ±8 | |
| T _A | Free-Air Operating Temperature | | -40 | 85 | °C |
| $\Delta t/\Delta V$ | Input Edge Rate | $V_{IN} = 0.8V - 2.0V, V_{CC} = 3.0V$ | 0 | 10 | ns/V |

Notes:

3. I_O Absolute Maximum Rating must be observed.

4. Unused inputs must be held HIGH or LOW. They may not float.

DC Electrical Characteristics

| | | | | $T_A = -40^{\circ}C$ | to +85°C | | |
|------------------|---------------------------------------|---------------------|------------------------------------|-----------------------|----------|-------|--|
| Symbol | Parameter | V _{CC} (V) | Conditions | Min. | Max. | Units | |
| V _{IH} | HIGH Level Input Voltage | 2.3–2.7 | | 1.7 | | V | |
| | | 2.7–3.6 | - | 2.0 | | | |
| V _{IL} | LOW Level Input Voltage | 2.3–2.7 | | | 0.7 | V | |
| | | 2.7–3.6 | | | 0.8 | | |
| V _{OH} | HIGH Level Output Voltage | 2.3–3.6 | I _{OH} = -100μA | V _{CC} – 0.2 | | V | |
| | | 2.3 | I _{OH} = -8mA | 1.8 | | | |
| | | 2.7 | $I_{OH} = -12mA$ | 2.2 | | | |
| | | 3.0 | I _{OH} = -18mA | 2.4 | | | |
| | | | $I_{OH} = -24 \text{mA}$ | 2.2 | | | |
| V _{OL} | LOW Level Output Voltage | 2.3–3.6 | I _{OL} = 100μA | | 0.2 | V | |
| | | 2.3 | I _{OL} = 8mA | | 0.6 |] | |
| | | 2.7 | I _{OL} = 12mA | | 0.4 |] | |
| | | 3.0 | I _{OL} = 16mA | | 0.4 |] | |
| | | | $I_{OL} = 24 \text{mA}$ | | 0.55 | | |
| lμ – | Input Leakage Current | 2.3–3.6 | $0 \le V_I \le 5.5V$ | | ±5.0 | μA | |
| I _{OFF} | Power-Off Leakage Current | 0 | $V_{\rm I}$ or $V_{\rm O} = 5.5 V$ | | 10 | μA | |
| I _{CC} | Quiescent Supply Current | 2.3–3.6 | $V_I = V_{CC}$ or GND | | 10 | μA | |
| | | | $3.6V \le V_I, V_O \le 5.5V^{(5)}$ | | ±10 | | |
| ΔI_{CC} | Increase in I _{CC} per Input | 2.3–3.6 | $V_{IH} = V_{CC} = 0.6V$ | | 500 | μΑ | |

AC Electrical Characteristics

| | | $T_A = -40^{\circ}C$ to $+85^{\circ}C$, $R_L = 500\Omega$ | | | | | | |
|---------------------------------------|--------------------------------------|--|--------------------|------|-----------------|---|--------------------|-------|
| | | V _{CC} = 3.3 C _L = | 8V ± 0.3V, 50pF | | ₌ 2.7V, 50pF | V _{CC} = 2.5 C _L = | iV ± 0.2V, 30pF | |
| Symbol | Parameter | Min. | Max. | Min. | Max. | Min. | Max. | Units |
| t _{PHL} , t _{PLH} | Propagation Delay | 1.5 | 6.5 | 1.5 | 7.5 | 1.5 | 7.8 | ns |
| t _{PZL} , t _{PZH} | Output Enable Time | 1.5 | 8.5 | 1.5 | 9.5 | 1.5 | 10.5 | ns |
| t _{PLZ} , t _{PHZ} | Output Disable Time | 1.5 | 7.5 | 1.5 | 8.5 | 1.5 | 9.0 | ns |
| t _{OSHL} , t _{OSLH} | Output to Output Skew ⁽⁶⁾ | | 1.0 | | | | | ns |

Notes

5. Outputs disabled or 3-STATE only.

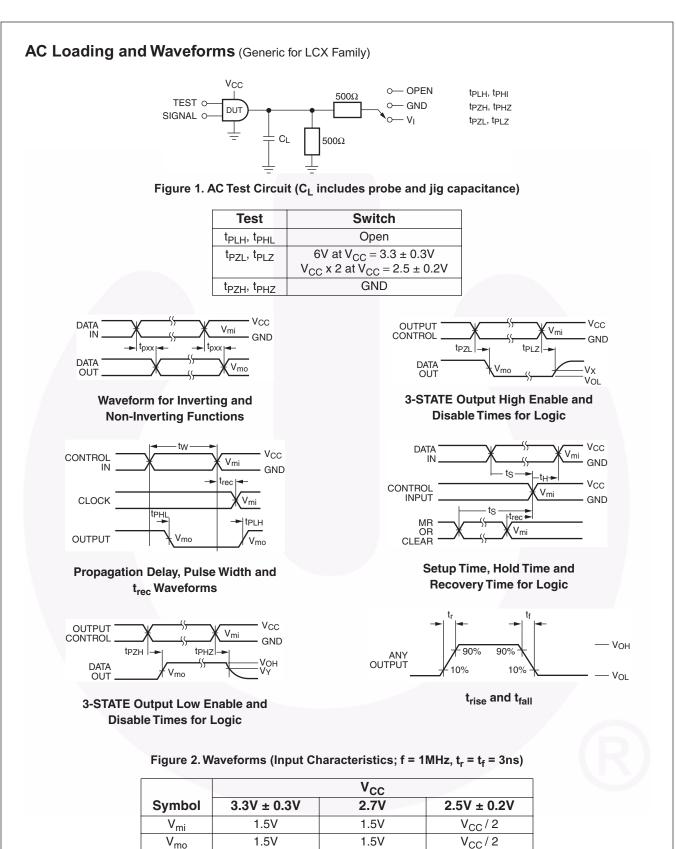
6. Skew is defined as the absolute value of the difference between the actual propagation delay for any two separate outputs of the same device. The specification applies to any outputs switching in the same direction, either HIGH-to-LOW (t_{OSHL}) or LOW-to-HIGH (t_{OSLH}).

Dynamic Switching Characteristics

| | | | | $T_A = 25^{\circ}C$ | |
|------------------|---|---------------------|---|---------------------|-------|
| Symbol | Parameter | V _{CC} (V) | Conditions | Typical | Units |
| V _{OLP} | Quiet Output Dynamic Peak V _{OL} | 3.3 | $C_L = 50 \text{ pF}, V_{IH} = 3.3 \text{V}, V_{IL} = 0 \text{V}$ | 0.8 | V |
| | | 2.5 | $C_L = 30 \text{ pF}, V_{IH} = 2.5 \text{V}, V_{IL} = 0 \text{V}$ | 0.6 | |
| V _{OLV} | Quiet Output Dynamic Valley V _{OL} | 3.3 | $C_{L} = 50 \text{ pF}, V_{IH} = 3.3 \text{V}, V_{IL} = 0 \text{V}$ | -0.8 | V |
| | | 2.5 | $C_{L} = 30 \text{ pF}, V_{IH} = 2.5 \text{V}, V_{IL} = 0 \text{V}$ | -0.6 | |

Capacitance

| Symbol | Parameter | Conditions | Typical | Units |
|------------------|-------------------------------|---|---------|-------|
| C _{IN} | Input Capacitance | $V_{CC} = Open, V_I = 0V \text{ or } V_{CC}$ | 7 | pF |
| C _{OUT} | Output Capacitance | $V_{CC} = 3.3V$, $V_I = 0V$ or V_{CC} | 8 | pF |
| C _{PD} | Power Dissipation Capacitance | $V_{CC} = 3.3V$, $V_I = 0V$ or V_{CC} , f = 10 MHz | 25 | pF |



V_{OL} + 0.3V

V_{OH} - 0.3V

 $V_{OL} + 0.15V$

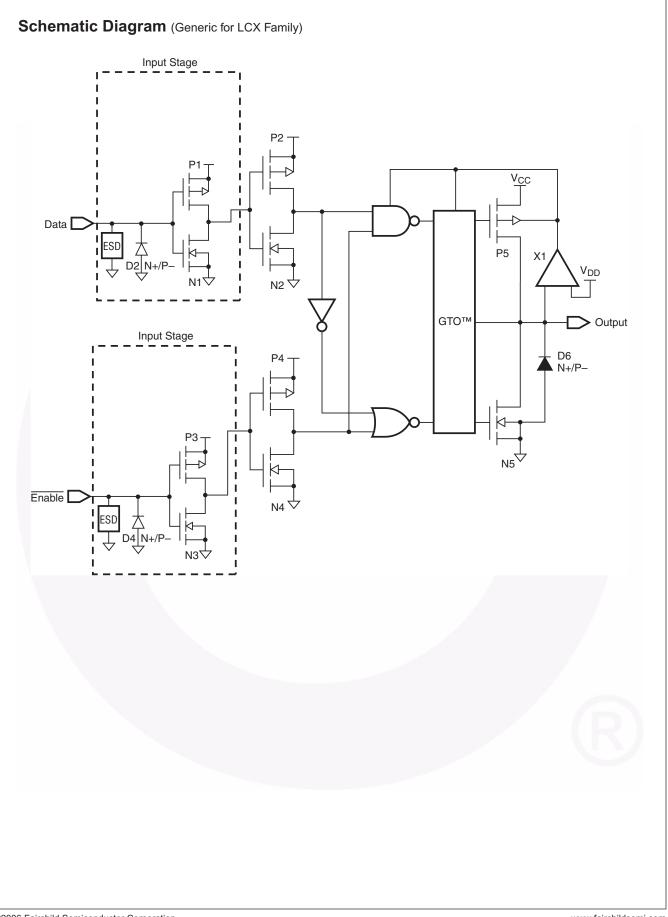
V_{OH} – 0.15V

 $V_{OL} + 0.3V$

V_{OH} – 0.3V

V_x

V_v

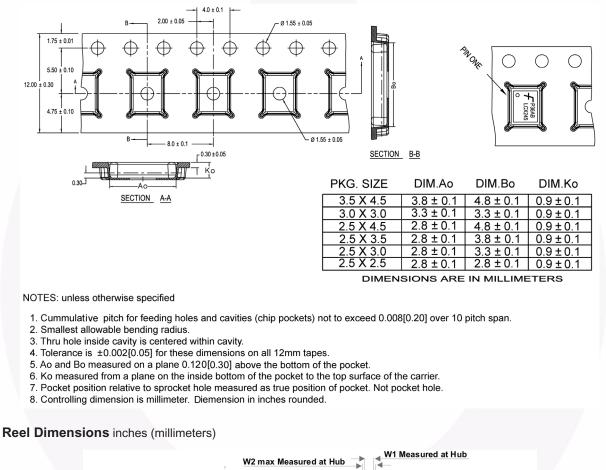


Tape and Reel Specification

Tape Format for DQFN

| Package Designator | Tape Section | Number Cavities | Cavity Status | Cover Tape Status |
|-----------------------|--------------------|--------------------|------------------|----------------------|
| BQX | Leader (Start End) | 125 (typ) | Empty | Sealed |
| | Carrier | 3000 | Filled | Sealed |
| | Trailer (Hub End) | 75 (typ) | Empty | Sealed |

Tape Dimensions inches (millimeters)



| | Dia A max | | See | Dia N | <u>B Min</u> Dia D min Dia C DET | Dia C Dia C | |
|-----------|--------------|---|-----|-------|--|----------------|----|
| | V | | | | | | |
| Tape Size | A | В | C | D | N | W1 | W2 |

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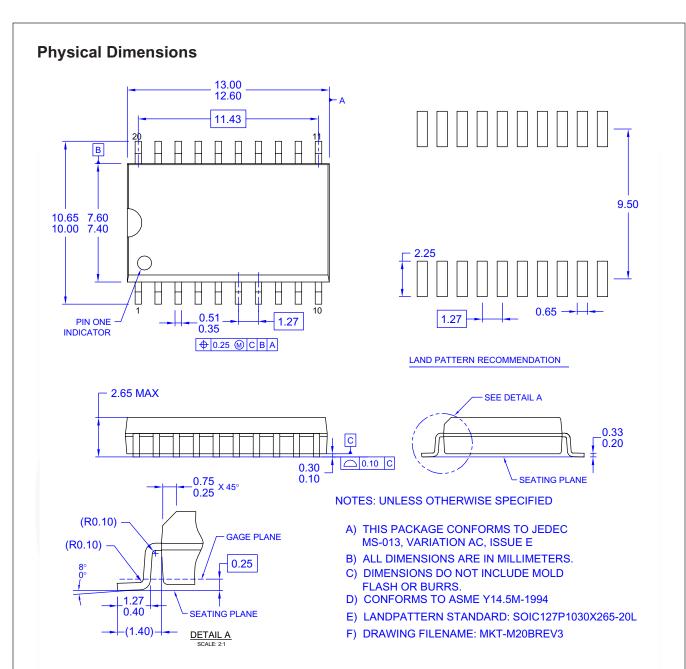
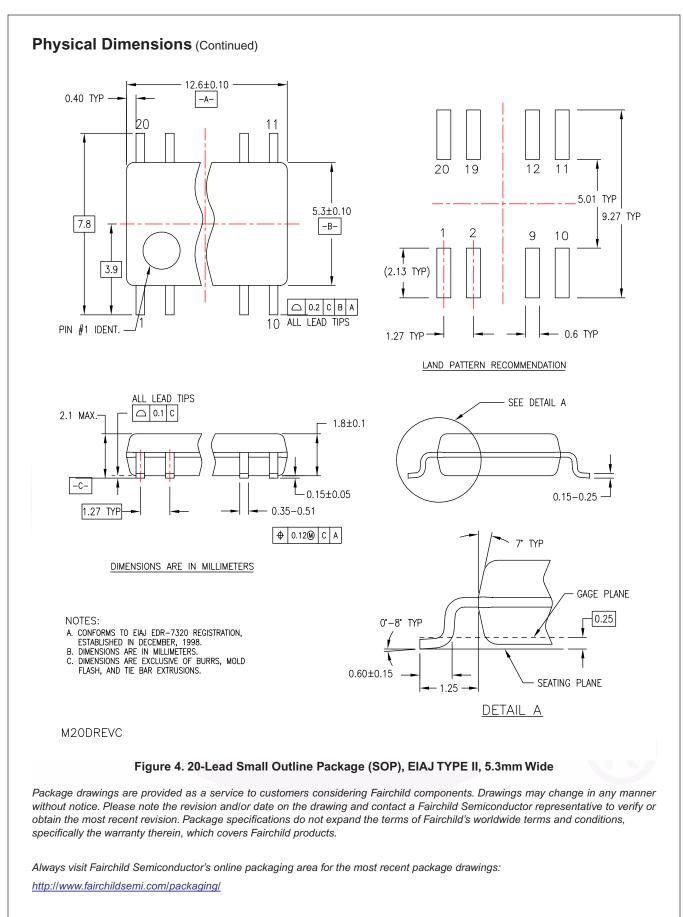
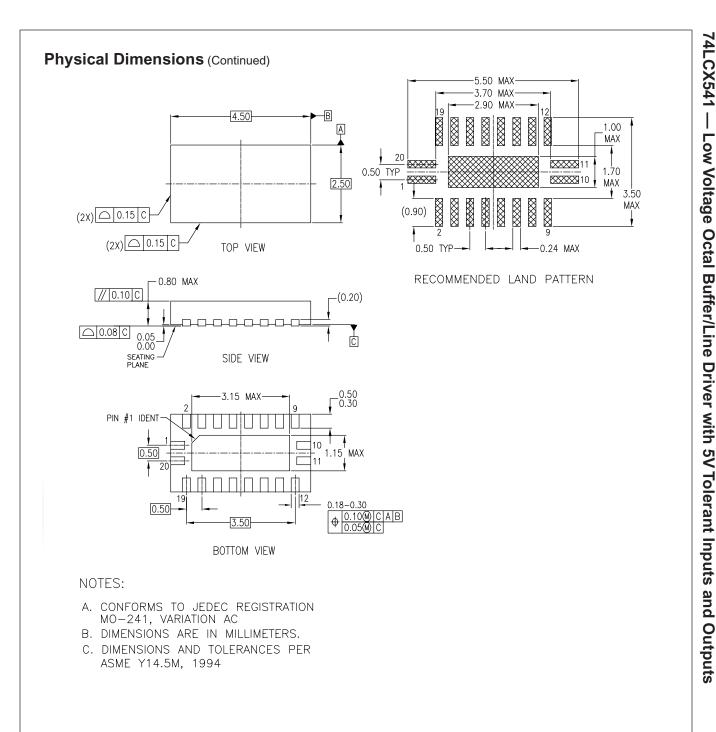


Figure 3. 20-Lead Small Outline Integrated Circuit (SOIC), JEDEC MS-013, 0.300" Wide

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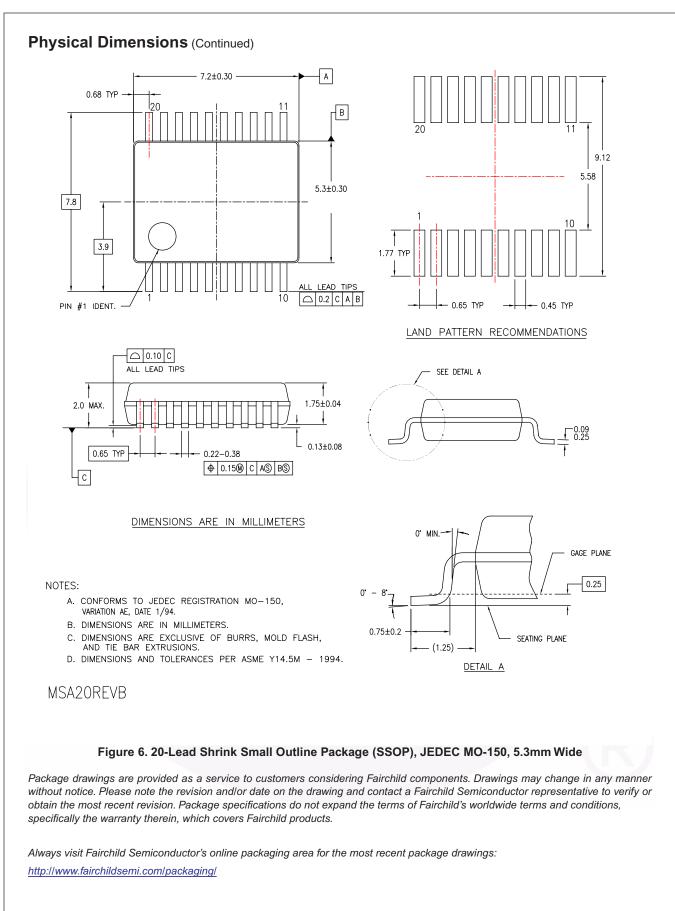
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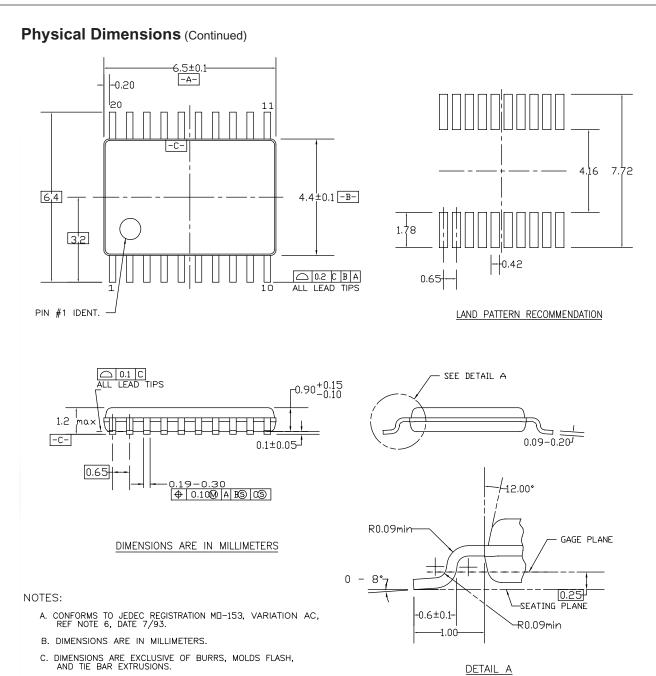
Figure 5. 20-Terminal Depopulated Quad Very-Thin Flat Pack No Leads (DQFN), JEDEC MO-241, 2.5 x 4.5mm

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D. DIMENSIONS AND TOLERANCES PER ANSI Y14.5M, 1982.

MTC20REVD1

Figure 7. 20-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 4.4mm Wide

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