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## 74VCX16245

### Low Voltage 16-Bit Bidirectional Transceiver with 3.6V Tolerant Inputs and Outputs

#### General Description

The VCX16245 contains sixteen non-inverting bidirectional buffers with 3-STATE outputs and is intended for bus oriented applications. The device is byte controlled. Each byte has separate 3-STATE control inputs which can be shorted together for full 16-bit operation. The  $T/\bar{R}$  inputs determine the direction of data flow through the device. The  $\overline{OE}$  inputs disable both the A and B ports by placing them in a high impedance state.

The 74VCX16245 is designed for low voltage (1.2V to 3.6V)  $V_{CC}$  applications with I/O compatibility up to 3.6V.

The 74VCX16245 is fabricated with an advanced CMOS technology to achieve high speed operation while maintaining low CMOS power dissipation.

#### Features

- 1.2V to 3.6V  $V_{CC}$  supply operation
- 3.6V tolerant inputs and outputs
- $t_{PD}$ 
  - 2.5 ns max for 3.0V to 3.6V  $V_{CC}$
- Power-off high impedance inputs and outputs
- Supports live insertion/withdrawal (Note 1)
- Static Drive ( $I_{OH}/I_{OL}$ )
  - $\pm 24$  mA @ 3.0V  $V_{CC}$
- Uses proprietary noise/EMI reduction circuitry
- Latchup performance exceeds 300 mA
- ESD performance:
  - Human body model > 2000V
  - Machine model > 200V
- Also packaged in plastic Fine-Pitch Ball Grid Array (FBGA)

**Note 1:** To ensure the high-impedance state during power up or power down,  $\overline{OE}$  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.

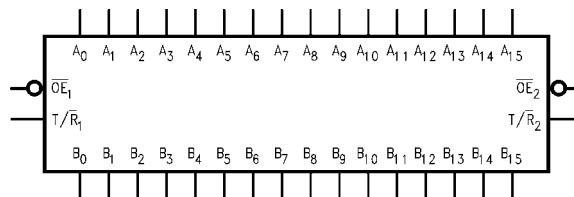
#### Ordering Code:

Order Number	Package Number	Package Description
74VCX16245G (Note 2)(Note 3)	BGA54A	54-Ball Fine-Pitch Ball Grid Array (FBGA), JEDEC MO-205, 5.5mm Wide
74VCX16245MTD (Note 3)	MTD48	48-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide

**Note 2:** Ordering code "G" indicates Trays.

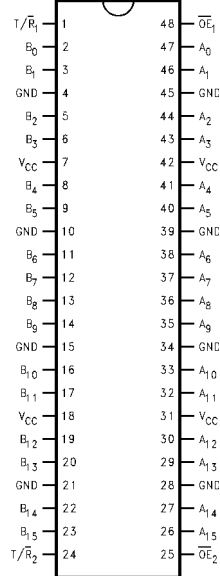
**Note 3:** Devices also available in Tape and Reel. Specify by appending the suffix letter "X" to the ordering code.

#### Logic Symbol

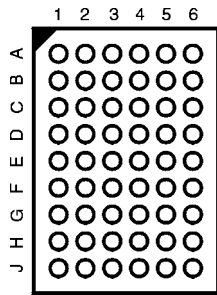


### Connection Diagrams

Pin Assignment of TSSOP



Pin Assignment for FBGA



(Top Thru View)

### Pin Descriptions

Pin Names	Description
$\overline{OE}_n$	Output Enable Input (Active LOW)
$T/\bar{R}_n$	Transmit/Receive Input
$A_0$ - $A_{15}$	Side A Inputs or 3-STATE Outputs
$B_0$ - $B_{15}$	Side B Inputs or 3-STATE Outputs
NC	No Connect

### FBGA Pin Assignments

	1	2	3	4	5	6
<b>A</b>	$B_0$	NC	$T/\bar{R}_1$	$\overline{OE}_1$	NC	$A_0$
<b>B</b>	$B_2$	$B_1$	NC	NC	$A_1$	$A_2$
<b>C</b>	$B_4$	$B_3$	$V_{CC}$	$V_{CC}$	$A_3$	$A_4$
<b>D</b>	$B_6$	$B_5$	GND	GND	$A_5$	$A_6$
<b>E</b>	$B_8$	$B_7$	GND	GND	$A_7$	$A_8$
<b>F</b>	$B_{10}$	$B_9$	GND	GND	$A_9$	$A_{10}$
<b>G</b>	$B_{12}$	$B_{11}$	$V_{CC}$	$V_{CC}$	$A_{11}$	$A_{12}$
<b>H</b>	$B_{14}$	$B_{13}$	NC	NC	$A_{13}$	$A_{14}$
<b>J</b>	$B_{15}$	NC	$T/\bar{R}_2$	$\overline{OE}_2$	NC	$A_{15}$

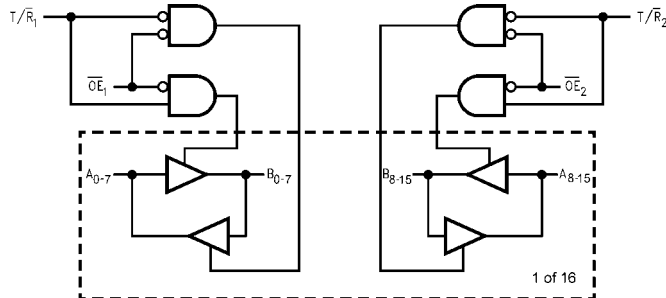
### Truth Tables

Inputs		Outputs
$\overline{OE}_1$	$T/\bar{R}_1$	
L	L	Bus $B_0$ - $B_7$ Data to Bus $A_0$ - $A_7$
L	H	Bus $A_0$ - $A_7$ Data to Bus $B_0$ - $B_7$
H	X	HIGH Z State on $A_0$ - $A_7$ , $B_0$ - $B_7$

Inputs		Outputs
$\overline{OE}_2$	$T/\bar{R}_2$	
L	L	Bus $B_8$ - $B_{15}$ Data to Bus $A_8$ - $A_{15}$
L	H	Bus $A_8$ - $A_{15}$ Data to Bus $B_8$ - $B_{15}$
H	X	HIGH Z State on $A_8$ - $A_{15}$ , $B_8$ - $B_{15}$

H = HIGH Voltage Level  
 L = LOW Voltage Level  
 X = Immaterial (HIGH or LOW, inputs and I/O's may not float)  
 Z = High Impedance

### Logic Diagram



**Absolute Maximum Ratings**(Note 4)

Supply Voltage ( $V_{CC}$ )	-0.5V to +4.6V
DC Input Voltage ( $V_I$ )	-0.5V to +4.6V
Output Voltage ( $V_O$ )	
Outputs 3-STATE	-0.5V to +4.6V
Outputs Active (Note 5)	-0.5 to $V_{CC} + 0.5V$
DC Input Diode Current ( $I_{IK}$ ) $V_I < 0V$	-50 mA
DC Output Diode Current ( $I_{OK}$ )	
$V_O < 0V$	-50 mA
$V_O > V_{CC}$	+50 mA
DC Output Source/Sink Current ( $I_{OH}/I_{OL}$ )	$\pm 50$ mA
DC $V_{CC}$ or Ground Current per Supply Pin ( $I_{CC}$ or Ground)	$\pm 100$ mA
Storage Temperature Range ( $T_{STG}$ )	-65°C to +150°C

**Recommended Operating Conditions** (Note 6)

Power Supply	
Operating	1.2V to 3.6V
Input Voltage	-0.3V to 3.6V
Output Voltage ( $V_O$ )	
Output in Active States	0V to $V_{CC}$
Output in 3-STATE	0.0V to 3.6V
Output Current in $I_{OH}/I_{OL}$	
$V_{CC} = 3.0V$ to 3.6V	$\pm 24$ mA
$V_{CC} = 2.3V$ to 2.7V	$\pm 18$ mA
$V_{CC} = 1.65V$ to 2.3V	$\pm 6$ mA
$V_{CC} = 1.4V$ to 1.6V	$\pm 2$ mA
$V_{CC} = 1.2V$	$\pm 100$ $\mu A$
Free Air Operating Temperature ( $T_A$ )	-40°C to +85°C
Minimum Input Edge Rate ( $\Delta t/\Delta V$ )	
$V_{IN} = 0.8V$ to 2.0V, $V_{CC} = 3.0V$	10 ns/V

**Note 4:** The "Absolute Maximum Ratings" are those values beyond which the safety of the device cannot be guaranteed. The device should not be operated at these limits. The parametric values defined in the "Electrical Characteristics" table are not guaranteed at the Absolute Maximum Ratings. The Recommended Operating Conditions tables will define the conditions for actual device operation.

**Note 5:**  $I_O$  Absolute Maximum Rating must be observed.

**Note 6:** Floating or unused pin (inputs or I/O's) must be held HIGH or LOW.

**DC Electrical Characteristics**

Symbol	Parameter	Conditions	$V_{CC}$ (V)	Min	Max	Units
$V_{IH}$	HIGH Level Input Voltage		2.7 - 3.6	2.0		V
			2.3 - 2.7	1.6		
			1.65 - 2.3	$0.65 \times V_{CC}$		
			1.4 - 1.6	$0.65 \times V_{CC}$		
			1.2	$0.65 \times V_{CC}$		
$V_{IL}$	LOW Level Input Voltage		2.7 - 3.6		0.8	V
			2.3 - 2.7		0.7	
			1.65 - 2.3		$0.35 \times V_{CC}$	
			1.4 - 1.6		$0.35 \times V_{CC}$	
			1.2		$0.05 \times V_{CC}$	
$V_{OH}$	HIGH Level Output Voltage	$I_{OH} = -100 \mu A$ $I_{OH} = -12$ mA $I_{OH} = -18$ mA $I_{OH} = -24$ mA	2.7 - 3.6	$V_{CC} - 0.2$		V
			2.7	2.2		
			3.0	2.4		
			3.0	2.2		
		$I_{OH} = -100 \mu A$ $I_{OH} = -6$ mA $I_{OH} = -12$ mA $I_{OH} = -18$ mA	2.3 - 2.7	$V_{CC} - 0.2$		
			2.3	2.0		
			2.3	1.8		
			2.3	1.7		
		$I_{OH} = -100 \mu A$ $I_{OH} = -6$ mA	1.65 - 2.3	$V_{CC} - 0.2$		
			1.65	1.25		
		$I_{OH} = -100 \mu A$ $I_{OH} = -2$ mA	1.4 - 1.6	$V_{CC} - 0.2$		
			1.4	1.05		
$I_{OH} = -100 \mu A$	1.2	$V_{CC} - 0.2$				

### DC Electrical Characteristics (Continued)

Symbol	Parameter	Conditions	V <sub>CC</sub> (V)	Min	Max	Units
V <sub>OL</sub>	LOW Level Output Voltage	I <sub>OL</sub> = 100 μA	2.7 - 3.6		0.2	V
		I <sub>OL</sub> = 12 mA	2.7		0.4	
		I <sub>OL</sub> = 18 mA	3.0		0.4	
		I <sub>OL</sub> = 24 mA	3.0		0.55	
		I <sub>OL</sub> = 100 μA	2.3 - 2.7		0.2	
		I <sub>OL</sub> = 12 mA	2.3		0.4	
		I <sub>OL</sub> = 18 mA	2.3		0.6	
		I <sub>OL</sub> = 100 μA	1.65 - 2.3		0.2	
I <sub>I</sub>	Input Leakage Current	0V ≤ V <sub>I</sub> ≤ 3.6V	1.2 - 3.6		±5.0	μA
		I <sub>OZ</sub>	3-STATE Output Leakage	0V ≤ V <sub>O</sub> ≤ 3.6V V <sub>I</sub> = V <sub>IH</sub> or V <sub>IL</sub>	1.2 - 3.6	
I <sub>OFF</sub>	Power Off Leakage Current	0V ≤ (V <sub>I</sub> , V <sub>O</sub> ) ≤ 3.6V	0		10	μA
I <sub>CC</sub>	Quiescent Supply Current	V <sub>I</sub> = V <sub>CC</sub> or GND	1.2 - 3.6		20	μA
		V <sub>CC</sub> ≤ (V <sub>I</sub> , V <sub>O</sub> ) ≤ 3.6V (Note 7)	1.2 - 3.6		±20	μA
ΔI <sub>CC</sub>	Increase in I <sub>CC</sub> per Input	V <sub>IH</sub> = V <sub>CC</sub> - 0.6V	2.7 - 3.6		750	μA

Note 7: Outputs disabled or 3-STATE only.

### AC Electrical Characteristics (Note 8)

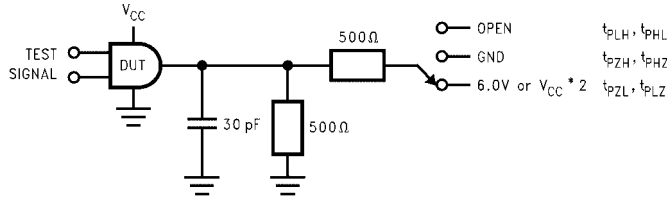
Symbol	Parameter	Conditions	V <sub>CC</sub>	T <sub>A</sub> = -40°C to +85°C		Units	Figure Number
			(V)	Min	Max		
t <sub>PHL</sub> t <sub>PLH</sub>	Propagation Delay	C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω	3.3 ± 0.3	0.8	2.5	ns	Figures 1, 2
			2.5 ± 0.2	1.0	3.0		
			1.8 ± 0.15	1.0	6.0		
t <sub>PZL</sub> t <sub>PZH</sub>	Output Enable Time	C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω	3.3 ± 0.3	0.8	3.8	ns	Figures 1, 3, 4
			2.5 ± 0.2	1.0	4.9		
			1.8 ± 0.15	1.5	9.3		
t <sub>PLZ</sub> t <sub>PHZ</sub>	Output Disable Time	C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω	3.3 ± 0.3	0.8	3.7	ns	Figures 1, 3, 4
			2.5 ± 0.2	1.0	4.2		
			1.8 ± 0.15	1.5	7.6		
t <sub>OSSL</sub> t <sub>OSHL</sub>	Output to Output Skew (Note 9)	C <sub>L</sub> = 30 pF, R <sub>L</sub> = 500Ω	3.3 ± 0.3		0.5	ns	
			2.5 ± 0.2		0.5		
			1.8 ± 0.15		0.75		
		C <sub>L</sub> = 15 pF, R <sub>L</sub> = 2kΩ	1.5 ± 0.1		1.5		
			1.2		1.5		
			1.2		1.5		

Note 8: For C<sub>L</sub> = 50pF, add approximately 300ps to the AC maximum specification.

Note 9: 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>OSSL</sub>) or LOW-to-HIGH (t<sub>OSHL</sub>).

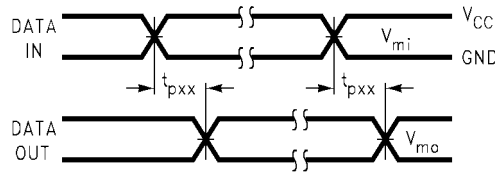
Dynamic Switching Characteristics					
Symbol	Parameter	Conditions	V <sub>CC</sub> (V)	T <sub>A</sub> = +25°C	Units
				Typical	
V <sub>OLP</sub>	Quiet Output Dynamic Peak V <sub>OL</sub>	C <sub>L</sub> = 30 pF, V <sub>IH</sub> = V <sub>CC</sub> , V <sub>IL</sub> = 0V	1.8	0.25	V
			2.5	0.6	
			3.3	0.8	
V <sub>OLV</sub>	Quiet Output Dynamic Valley V <sub>OL</sub>	C <sub>L</sub> = 30 pF, V <sub>IH</sub> = V <sub>CC</sub> , V <sub>IL</sub> = 0V	1.8	-0.25	V
			2.5	-0.6	
			3.3	-0.8	
V <sub>OHV</sub>	Quiet Output Dynamic Valley V <sub>OH</sub>	C <sub>L</sub> = 30 pF, V <sub>IH</sub> = V <sub>CC</sub> , V <sub>IL</sub> = 0V	1.8	1.5	V
			2.5	1.9	
			3.3	2.2	
Capacitance					
Symbol	Parameter	Conditions	T <sub>A</sub> = +25°C		Units
			Typical		
C <sub>IN</sub>	Input Capacitance	V <sub>CC</sub> = 1.8V, 2.5V, or 3.3V, V <sub>I</sub> = 0V or V <sub>CC</sub>	6		pF
C <sub>IO</sub>	Output Capacitance	V <sub>I</sub> = 0V, or V <sub>CC</sub> , V <sub>CC</sub> = 1.8V, 2.5V or 3.3V	7		pF
C <sub>PD</sub>	Power Dissipation Capacitance	V <sub>I</sub> = 0V or V <sub>CC</sub> , F = 10 MHz, V <sub>CC</sub> = 1.8V, 2.5V or 3.3V	20		pF

**AC Loading and Waveforms ( $V_{CC}$  3.3V ± 0.3V to 1.8V ± 0.15V)**

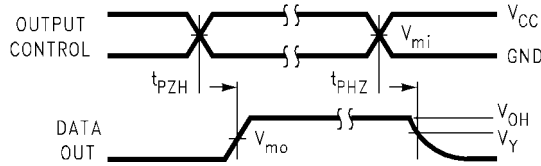


**FIGURE 1. AC Test Circuit**

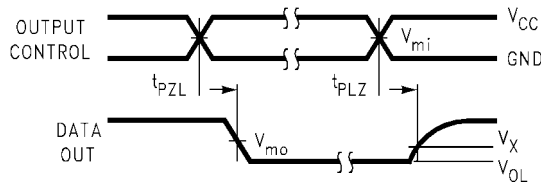
TEST	SWITCH
$t_{PLH}, t_{PHL}$	Open
$t_{PZL}, t_{PLZ}$	6V at $V_{CC} = 3.3 \pm 0.3V$ ; $V_{CC} \times 2$ at $V_{CC} = 2.5 \pm 0.2V, 1.8V \pm 0.15V$
$t_{PZH}, t_{PHZ}$	GND



**FIGURE 2. Waveform for Inverting and Non-inverting Functions**



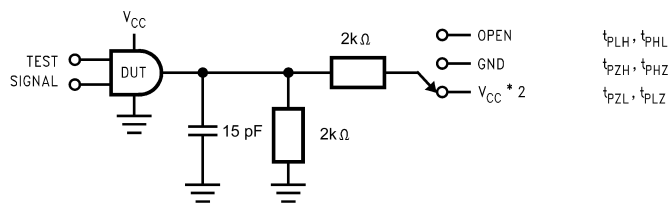
**FIGURE 3. 3-STATE Output High Enable and Disable Times for Low Voltage Logic**



**FIGURE 4. 3-STATE Output Low Enable and Disable Times for Low Voltage Logic**

Symbol	$V_{CC}$		
	3.3V ± 0.3V	2.5V ± 0.2V	1.8V ± 0.15V
$V_{mi}$	1.5V	$V_{CC}/2$	$V_{CC}/2$
$V_{mo}$	1.5V	$V_{CC}/2$	$V_{CC}/2$
$V_X$	$V_{OL} + 0.3V$	$V_{OL} + 0.15V$	$V_{OL} + 0.15V$
$V_Y$	$V_{OH} - 0.3V$	$V_{OH} - 0.15V$	$V_{OH} - 0.15V$

**AC Loading and Waveforms ( $V_{CC} 1.5V \pm 0.1V$  to  $1.2V$ )**



TEST	SWITCH
$t_{PLH}, t_{PHL}$	Open
$t_{PZL}, t_{PLZ}$	$V_{CC} \times 2$ at $V_{CC} = 1.5 \pm 0.1V$

FIGURE 5. AC Test Circuit

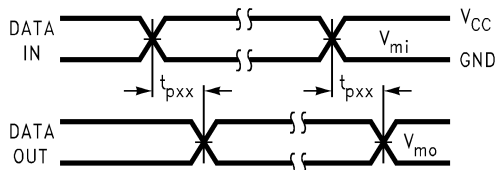


FIGURE 6. Waveform for Inverting and Non-Inverting Functions

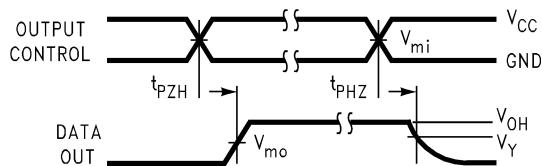


FIGURE 7. 3-STATE Output High Enable and Disable Times for Low Voltage Logic

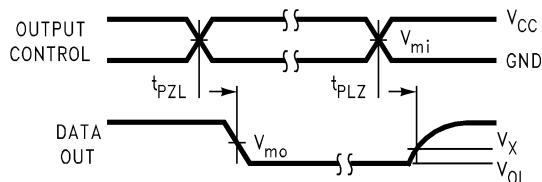


FIGURE 8. 3-STATE Output Low Enable and Disable Times for Low Voltage Logic

Symbol	$V_{CC}$
	$1.5V \pm 0.1V$
$V_{mi}$	$V_{CC}/2$
$V_{mo}$	$V_{CC}/2$
$V_X$	$V_{OL} + 0.1V$
$V_Y$	$V_{OH} - 0.1V$



**Physical Dimensions** inches (millimeters) unless otherwise noted



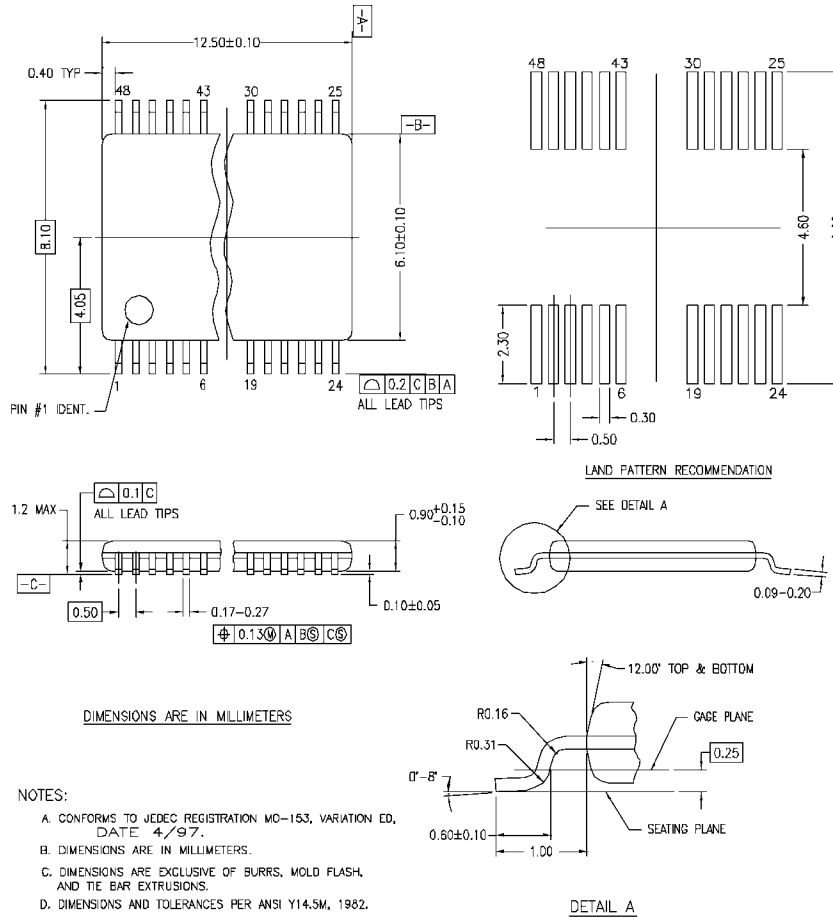
**NOTES:**

- A. THIS PACKAGE CONFORMS TO JEDEC M0-205
- B. ALL DIMENSIONS IN MILLIMETERS
- C. LAND PATTERN RECOMMENDATION: NSMD (Non Solder Mask Defined)  
.35MM DIA PADS WITH A SOLDERMASK OPENING OF .45MM CONCENTRIC TO PADS
- D. DRAWING CONFORMS TO ASME Y14.5M-1994

BGA54ArevD

**54-Ball Fine-Pitch Ball Grid Array (FBGA), JEDEC MO-205, 5.5mm Wide  
Package Number BGA54A**

**Physical Dimensions** inches (millimeters) unless otherwise noted (Continued)



MTD48REVC

**48-Lead Thin Shrink Small Outline Package (TSSOP), JEDEC MO-153, 6.1mm Wide Package Number MTD48**

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.

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