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1. Ordering Guide

Table 1.1. Si5336x Ordering Guide

Part Number	Input	LVC MOS Output	Output Enable	Frequency Range	Package
Si53360-B-GT	2:1 selectable MUX LVC MOS	1 bank / 8 Outputs	Single	dc to 200 MHz	16-TSSOP
Si53361-B-GM	2:1 selectable MUX LVC MOS	1 bank / 8 Outputs (Settable VDDO)	Single	dc to 200 MHz	16-QFN 3x3 mm
Si53362-B-GM	2:1 selectable MUX LVC MOS	2 banks / 6 Outputs	1 per bank	dc to 200 MHz	24-QFN 4x4 mm
Si53365-B-GT	1 bank / 1 Input LVC MOS	1 bank / 8 Outputs	Single	dc to 200 MHz	16-TSSOP

2. Functional Description

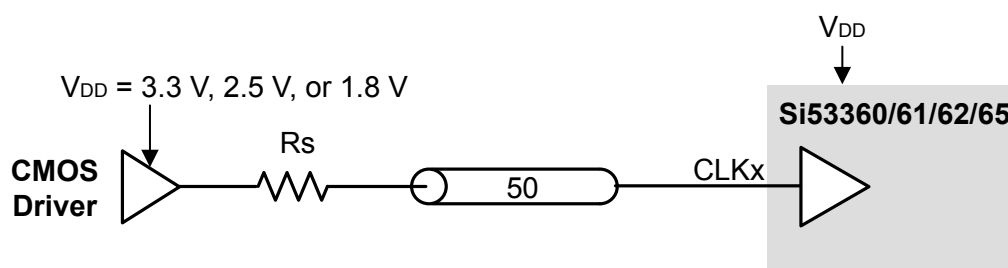
The Si53360/61/62/65 are a family of low-jitter, low skew, fixed format (LVCMOS) buffers. These devices are available in multiple configurations customized for the end application (refer to 1. [Ordering Guide](#) for more details on configurations).

2.1 LVCMOS Input Termination

The table below summarizes the various ac- and dc-coupling options supported by the LVCMOS device, and the figure shows the recommended input clock termination.

Table 2.1. LVCMOS Input Clock Options

	LVCMOS	
	AC-Coupled	DC-Coupled
1.8 V	No	Yes
2.5/3.3 V	Yes	Yes



Note: Value for R_s should be chosen so that the total source impedance matches the characteristic impedance of the PCB trace.

Figure 2.1. Recommended Input Clock Termination

2.2 Input Mux

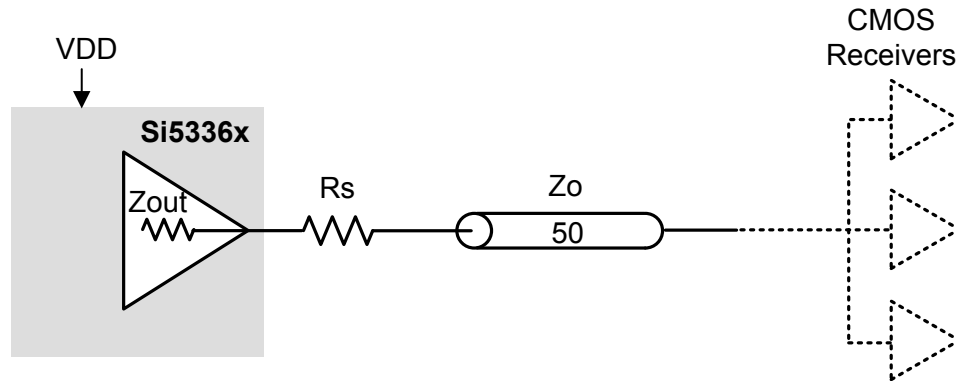
The Si53360-61/62 provide two clock inputs for applications that need to select between one of two clock sources. The CLK_SEL pin selects the active clock input. The following table summarizes the input and output clock based on the input mux settings.

Table 2.2. Input Mux Logic

CLK_SEL	CLK0	CLK1	Q
L	L	X	L
L	H	X	H
H	X	L	L
H	X	H	H

2.3 Output Clock Termination Options

The recommended output clock termination options are shown below. Unused outputs should be left unconnected.



Note:

$R_s = 33\ \Omega$ for 3.3 V and 2.5 V operation.

$R_s = 0\ \Omega$ for 1.8 V operation.

Figure 2.2. LVC MOS Output Termination

2.4 AC Timing Waveforms

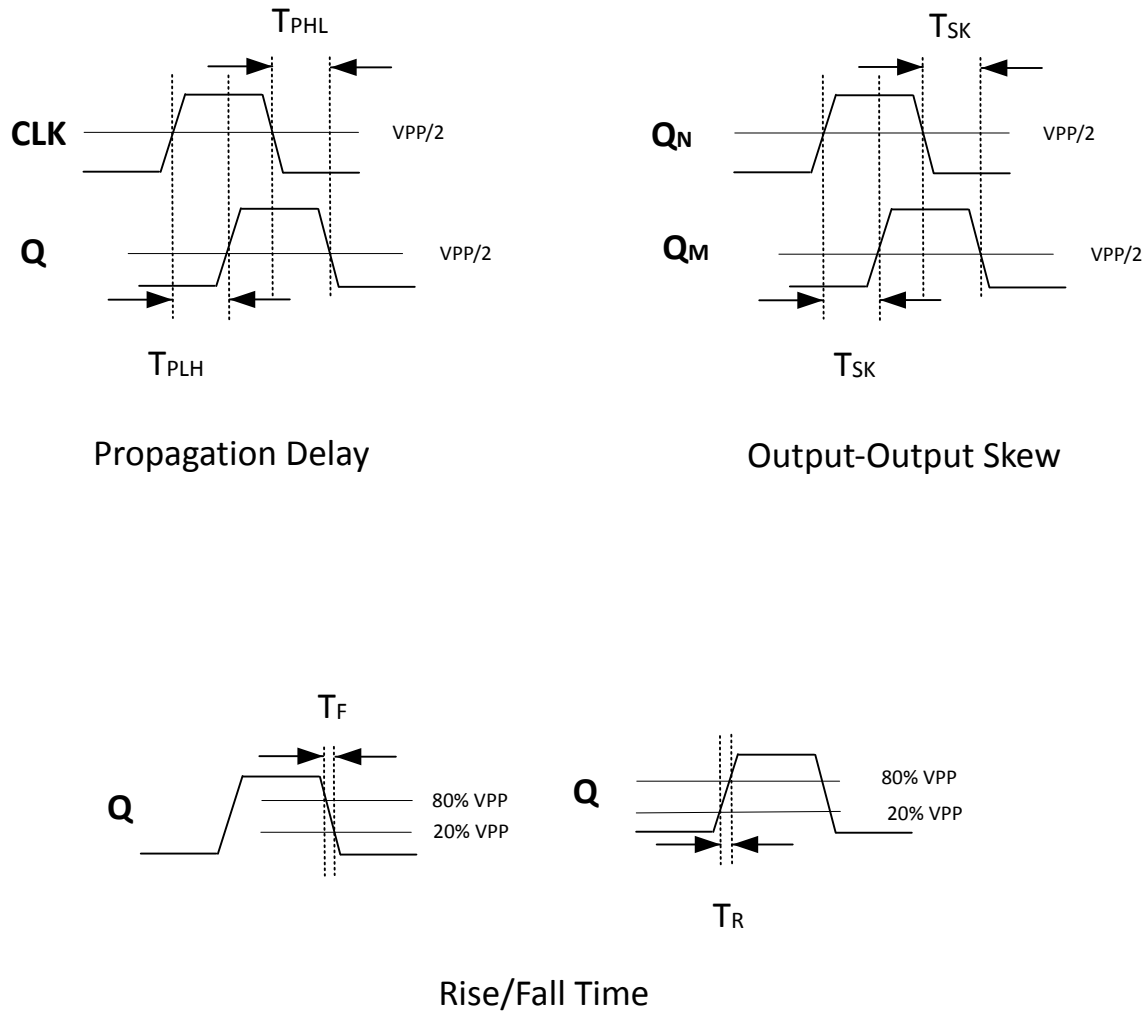


Figure 2.3. AC Timing Waveforms

2.5 Power Supply Noise Rejection

The device supports on-chip supply voltage regulation to reject power supply noise and simplify low-jitter operation in real-world environments. This feature enables robust operation alongside FPGAs, ASICs and SoCs and may reduce board-level filtering requirements. See “AN491: Power Supply Rejection for Low-Jitter Clocks” for more information.

2.6 Typical Phase Noise Performance: Single-Ended Input Clock

Each of the phase noise plots superimposes Source Jitter and Total Jitter on the same diagram.

- Source Jitter - Reference clock phase noise (measured Single-ended to PNA).
- Total Jitter - Combined source and clock buffer phase noise measured as a single-ended output to the phase noise analyzer and integrated from 12 kHz to 20 MHz. For more information, see 3. Electrical Specifications.

Note: To calculate the total RMS phase jitter when adding a buffer to your clock tree, use the root-sum-square (RSS).

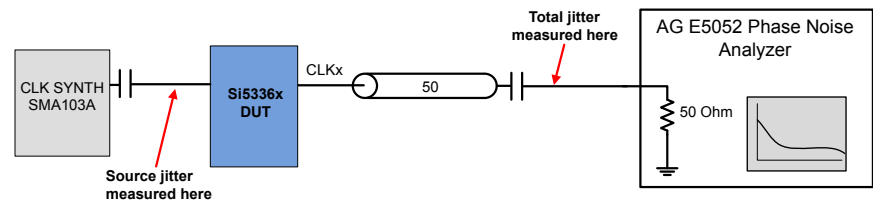
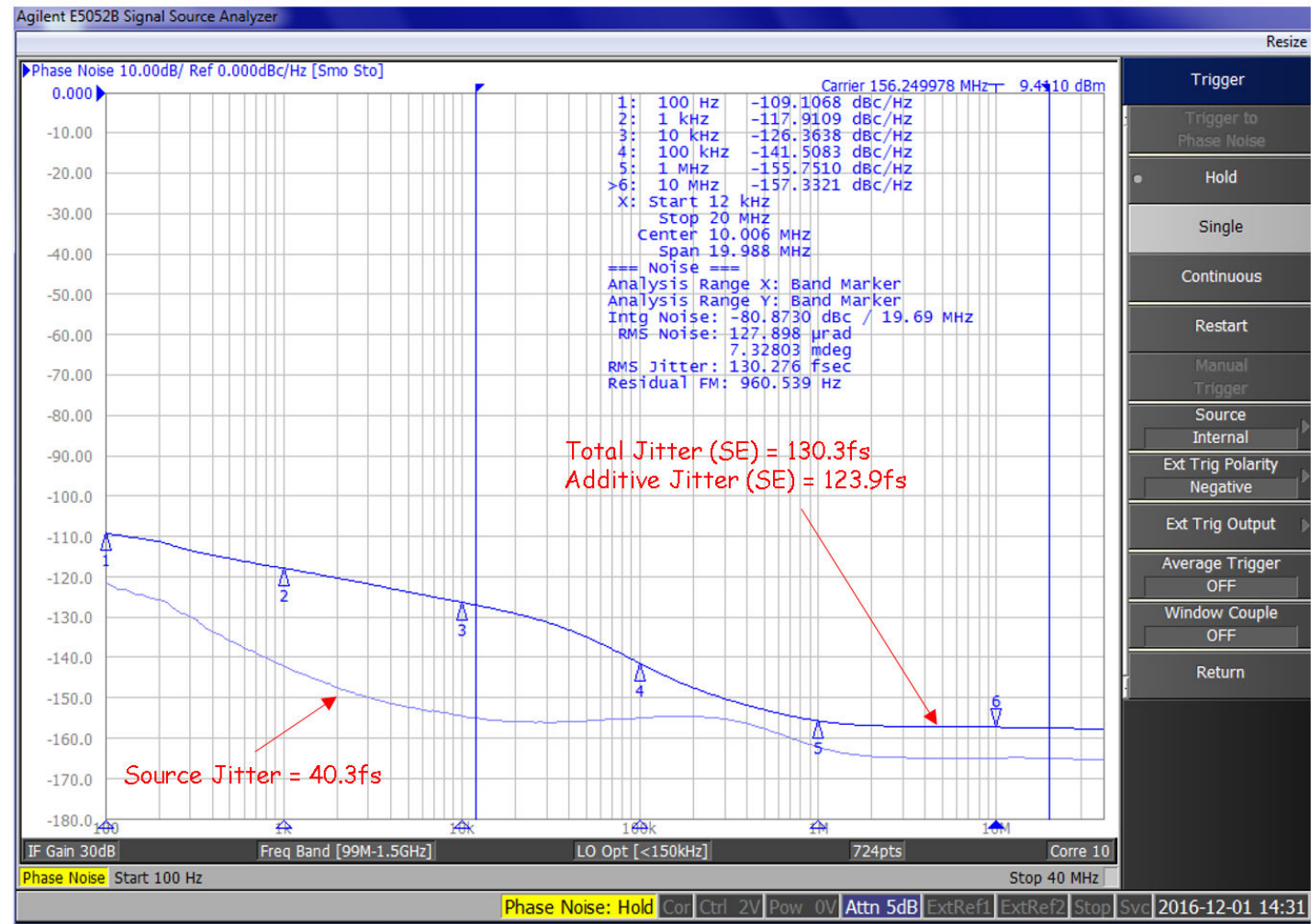


Figure 2.4. Single-ended Measurement Method

The following figure shows three phase noise plots superimposed on the same diagram.



Frequency (MHz)	Single-Ended Input Slew Rate (V/ns)	Source Jitter (fs)	Total Jitter (SE) (fs)	Additive Jitter (SE) (fs)
156.25	1.0	40.3	130.28	123.89

Figure 2.5. Total Jitter Single-Ended Input (156.25 MHz)

2.7 Input Mux Noise Isolation

The input clock mux is designed to minimize crosstalk between the CLK0 and CLK1. This improves phase jitter performance when clocks are present at both the CLK0 and CLK1 inputs. The following figure shows a measurement of the input mux's noise isolation.

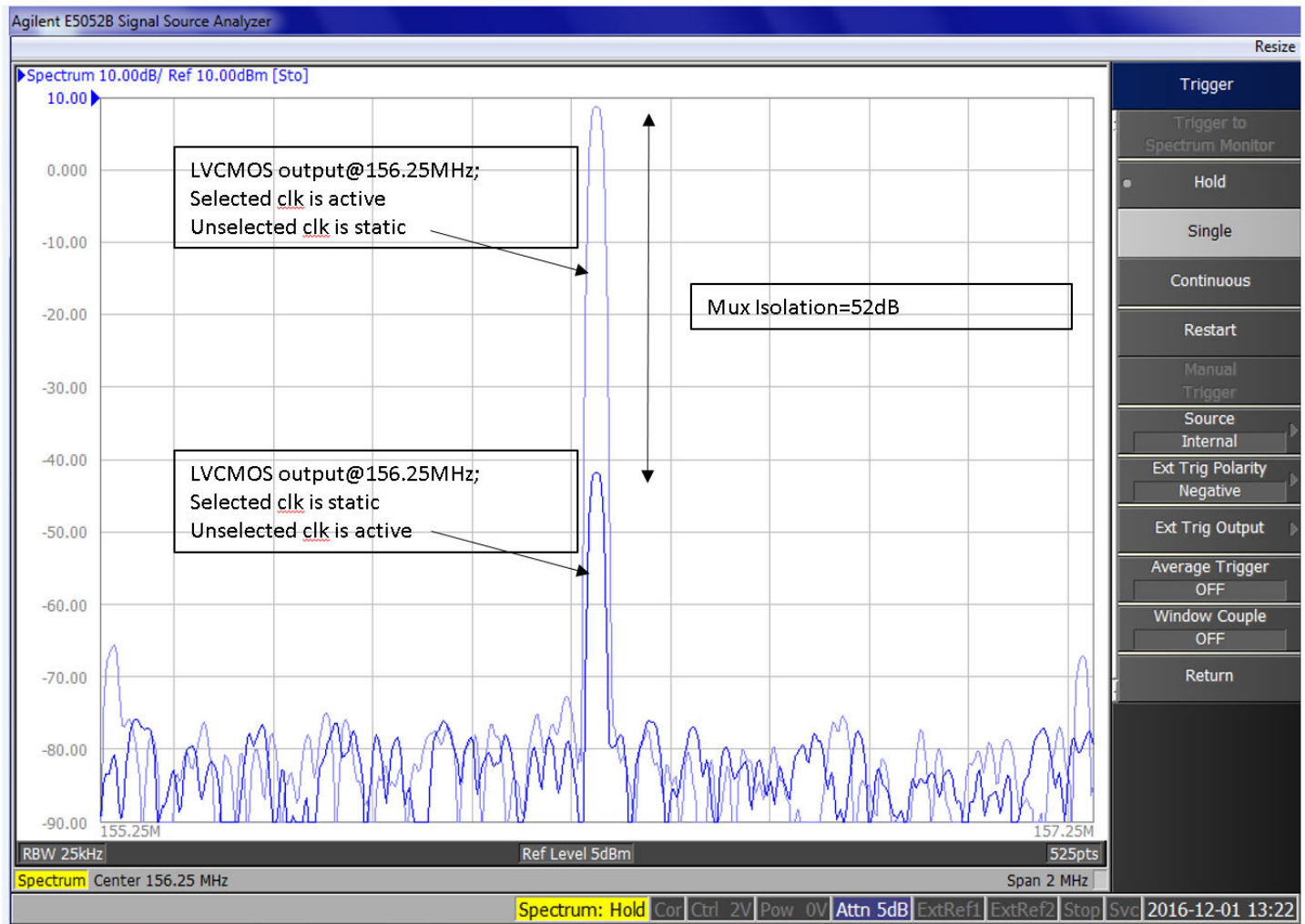


Figure 2.6. Input Mux Noise Isolation (Single-ended Input Clock, 16QFN Package)

3. Electrical Specifications

Table 3.1. Recommended Operating Conditions

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Ambient Operating Temperature	T_A		−40	—	85	°C
Supply Voltage Range	V_{DD}	LVCMOS	1.71	1.8	1.89	V
			2.38	2.5	2.63	V
			2.97	3.3	3.63	V

Table 3.2. Input Clock Specifications
 $V_{DD} = 1.8\text{ V} \pm 5\%$, $2.5\text{ V} \pm 5\%$, or $3.3\text{ V} \pm 10\%$, $T_A = -40$ to $85\text{ }^{\circ}\text{C}$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
LVCMOS Input High Voltage	V_{IH}		$V_{DD} \times 0.7$	—	—	V
LVCMOS Input Low Voltage	V_{IL}		—	—	$V_{DD} \times 0.3$	V
Input Capacitance	C_{IN}	CLK0 and CLK1 pins with respect to GND	—	5	—	pF

Table 3.3. DC Common Characteristics (CLK_SEL, OEx)
 $V_{DD} = 1.8\text{ V} \pm 5\%$, $2.5\text{ V} \pm 5\%$, or $3.3\text{ V} \pm 10\%$, $T_A = -40$ to $85\text{ }^{\circ}\text{C}$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Core Supply Current	I_{DD1}	$V_{DD} = 3.3\text{ V}$, Si53360/65	—	150	—	mA
		$V_{DD} = 3.3\text{ V}$, Si53361/62	—	35	—	mA
Output Supply Current (per clock output, Si53361/62 only)	I_{DDO1}	$V_{DDOX} = 1.8\text{ V}$	—	7	—	mA
		$V_{DDOX} = 2.5\text{ V}$	—	10	—	mA
		$V_{DDOX} = 3.3\text{ V}$	—	13	—	mA
Input High Voltage	V_{IH}		$V_{DD} \times 0.8$	—	—	V
Input Low Voltage	V_{IL}		—	—	$V_{DD} \times 0.2$	V
Internal Pull-up Resistor	R_{UP}	OEx, CLK_SEL	—	25	—	k Ω

Note:

 1. Frequency = 200 MHz, $C_{load} = 0\text{ pF}$

Table 3.4. Output Characteristics (LVCMOS)
 $V_{DD} = 1.8\text{ V} \pm 5\%$, $2.5\text{ V} \pm 5\%$, or $3.3\text{ V} \pm 10\%$, $T_A = -40$ to $85\text{ }^{\circ}\text{C}$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Output Voltage High	V_{OH}	$I_{OH} = -12\text{ mA}$, $V_{DD} = 3.3\text{ V}$ $I_{OH} = -9\text{ mA}$, $V_{DD} = 2.5\text{ V}$ $I_{OH} = -6\text{ mA}$, $V_{DD} = 1.8\text{ V}$	$V_{DD} \times 0.8$	—	—	V
Output Voltage Low	V_{OL}	$I_{OL} = 12\text{ mA}$, $V_{DD} = 3.3\text{ V}$ $I_{OL} = 9\text{ mA}$, $V_{DD} = 2.5\text{ V}$ $I_{OL} = 6\text{ mA}$, $V_{DD} = 1.8\text{ V}$	—	—	$V_{DD} \times 0.2$	V

Table 3.5. AC Characteristics
 $V_{DD} = 1.8\text{ V} \pm 5\%$, $2.5\text{ V} \pm 5\%$, or $3.3\text{ V} \pm 10\%$, $T_A = -40$ to $85\text{ }^{\circ}\text{C}$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Frequency	F	LVCMOS	dc	—	200	MHz
Duty Cycle (50% input duty cycle)	DC	200 MHz, 2pF load $T_R/T_F < 10\%$ of period	40	50	60	%
Minimum Input Clock Slew Rate	SR	Required to meet prop delay and additive jitter specifications (20–80%)	0.75	—	—	V/ns
Output Rise/Fall Time	T_R/T_F	200 MHz, 20/80%, 2 pF load	—	—	850	ps
Minimum Input Pulse Width	T_W		2	—	—	ns
Propagation Delay	T_{PLH} , T_{PHL}	Low-to-high, high-to-low Single-ended, $C_L = 2\text{ pF}$	1.5	3.0	4.5	ns
Output Enable Time	T_{EN}	F = 1 MHz	—	10	—	ns
		F = 100 MHz	—	10	—	ns
Output Disable Time	T_{DIS}	F = 1 MHz	—	20	—	ns
		F = 100 MHz	—	20	—	ns
Part-to-Part Skew	T_{SKPP}	$C_L = 2\text{ pF}$	0	—	300	ps
Output-to-Output Skew	T_{SK}	$C_L = 2\text{ pF}$	—	40	125	ps

Table 3.6. Additive Jitter

V_{DD}	Input ¹				Output	Additive Jitter (fs rms, 12 kHz to 20 MHz)	
	Freq (MHz)	Clock Format	Amplitude V_{IN} (Single-Ended, Peak-to-Peak)	Differential 20% to 80% Slew Rate (V/ns)	Clock Format	Typ	Max
3.3	200	SINGLE-ENDED	0.15	0.637	LVC MOS	130	180
3.3	156.25	SINGLE-ENDED	0.5	0.458	LVC MOS	125	220
2.5	200	SINGLE-ENDED	0.15	0.637	LVC MOS	115	250
2.5	156.25	SINGLE-ENDED	0.5	0.458	LVC MOS	125	240

Note:

1. For best additive jitter results, use the fastest slew rate possible. See “[AN766: Understanding and Optimizing Clock Buffer's Additive Jitter Performance](#)” for more information.

Table 3.7. Thermal Conditions

Parameter	Symbol	Test Condition	Value	Unit
16- TSSOP Thermal Resistance, Junction to Ambient	θ_{JA}	Still air	124.4	°C/W
16-QFN Thermal Resistance, Junction to Ambient	θ_{JA}	Still air	57.6	°C/W
16- QFN Thermal Resistance, Junction to Case	θ_{JC}	Still air	41.5	°C/W
24-QFN Thermal Resistance, Junction to Ambient	θ_{JA}	Still air	37	°C/W
24- QFN Thermal Resistance, Junction to Case	θ_{JC}	Still air	25	°C/W

Table 3.8. Absolute Maximum Ratings

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Storage Temperature	T_S		–55	—	150	°C
Supply Voltage	V_{DD}		–0.5	—	3.8	V
Input Voltage	V_{IN}		–0.5	—	$V_{DD} + 0.3$	V
Output Voltage	V_{OUT}		—	—	$V_{DD} + 0.3$	V
ESD Sensitivity	HBM	HBM, 100 pF, 1.5 k Ω	—	—	2000	V
	CDM		—	—	500	V
Peak Soldering Reflow Temperature	T_{PEAK}	Pb-Free; Solder reflow profile per JEDEC J-STD-020	—	—	260	°C
Maximum Junction Temperature	T_J		—	—	125	°C

Note:

1. Stresses beyond those listed in this table may cause permanent damage to the device. Functional operation specification compliance is not implied at these conditions. Exposure to maximum rating conditions for extended periods may affect device reliability.

4. Detailed Block Diagrams

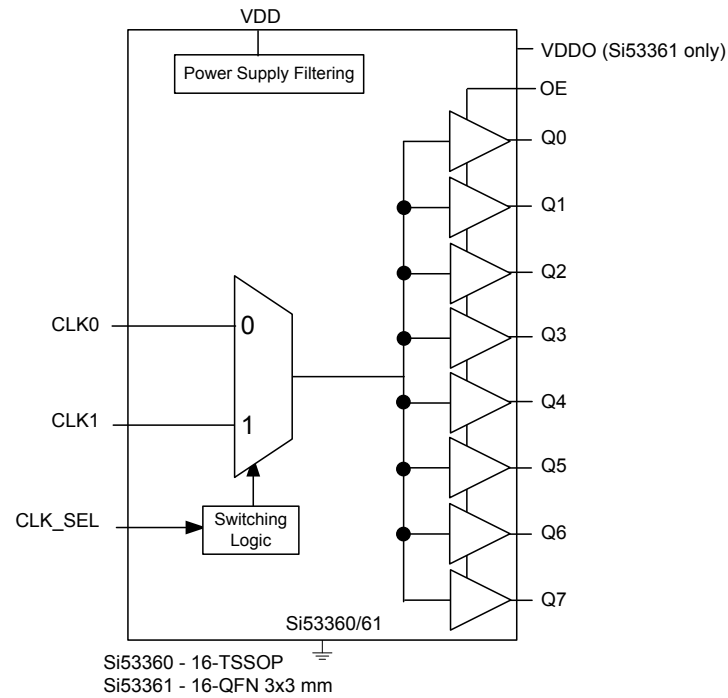


Figure 4.1. Si53360 and Si53361 Block Diagram

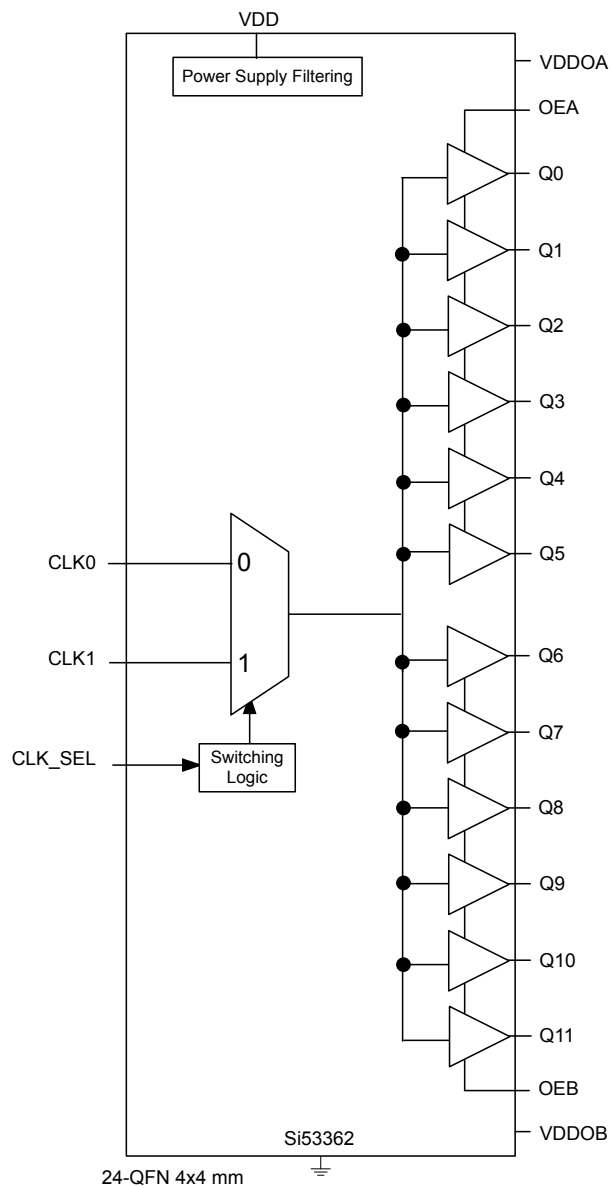
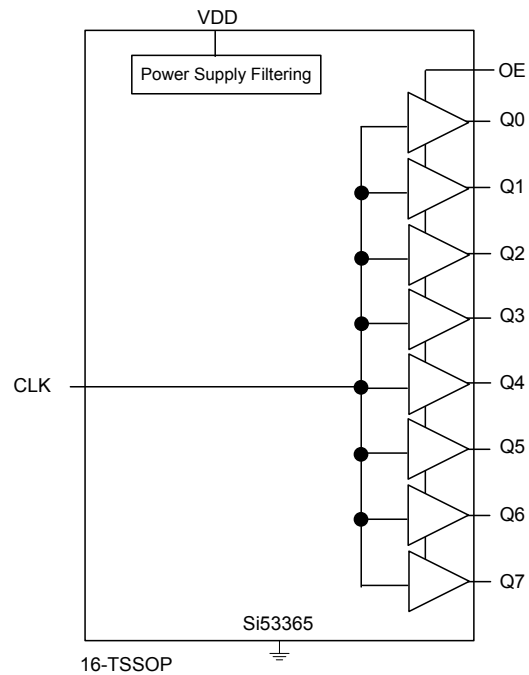


Figure 4.2. Si53362 Block Diagram

**Figure 4.3. Si53365 Block Diagram**

5. Si5336x Pin Descriptions

5.1 Si53360 Pin Descriptions

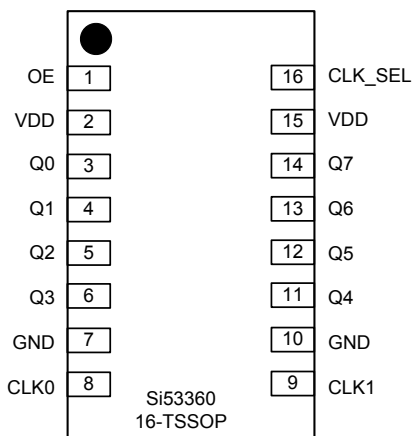


Figure 5.1. Si53360 Pin Descriptions

Table 5.1. Si53360 16-TSSOP Pin Descriptions

Pin	Name	Type ¹	Description
1	OE	I	Output enable. When OE= high, the clock outputs are enabled. When OE= low, the clock outputs are tri-stated. OE features an internal pull-up resistor, and may be left unconnected.
2	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
3	Q0	O	Output Clock 0.
4	Q1	O	Output Clock 1.
5	Q2	O	Output Clock 2.
6	Q3	O	Output Clock 3.
7	GND	GND	Ground.
8	CLK0	I	Input Clock 0.
9	CLK1	I	Input Clock 1.
10	GND	GND	Ground.
11	Q4	O	Output Clock 4.
12	Q5	O	Output Clock 5.
13	Q6	O	Output Clock 6.
14	Q7	O	Output Clock 7.
15	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
16	CLK_SEL	I	Mux input select pin (LVCMOS). When CLK_SEL is high, CLK1 is selected. When CLK_SEL is low, CLK0 is selected. CLK_SEL contains an internal pull-up resistor.

Pin	Name	Type ¹	Description
Note: 1. I = Input; O = Output; P = Power; GND = Ground.			

5.2 Si53361 Pin Descriptions

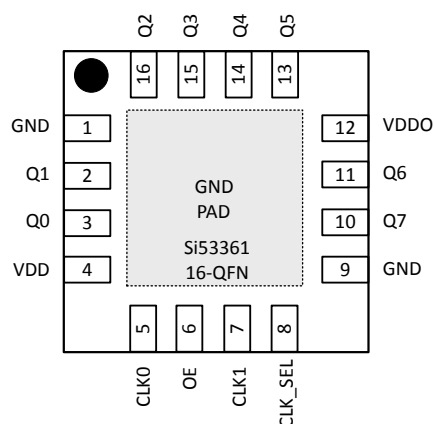


Figure 5.2. Si53361 Pin Descriptions

Table 5.2. Si53361 16-QFN Pin Descriptions

Pin	Name	Type ¹	Description
1	GND	GND	Ground.
2	Q1	O	Output Clock 1.
3	Q0	O	Output Clock 0.
4	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
5	CLK0	I	Input Clock 0.
6	OE	I	Output enable. When OE= high, the clock outputs are enabled. When OE= low, the clock outputs are tri-stated. OE features an internal pull-up resistor, and may be left unconnected.
7	CLK1	I	Input Clock 1.
8	CLK_SEL	I	Mux input select pin (LVCMOS). When CLK_SEL is high, CLK1 is selected. When CLK_SEL is low, CLK0 is selected. CLK_SEL contains an internal pull-up resistor.
9	GND	GND	Ground.
10	Q7	O	Output Clock 7.
11	Q6	O	Output Clock 6.
12	VDDO	P	Output voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDDO pin as possible.
13	Q5	O	Output Clock 5.
14	Q4	O	Output Clock 4.
15	Q3	O	Output Clock 3.
16	Q2	O	Output Clock 2.
GND Pad	Exposed Ground Pad	GND	Power supply ground and thermal relief. The exposed ground pad is thermally connected to the die to improve the heat transfer out of the package. The ground pad must be connected to GND to ensure device specifications are met.

Pin	Name	Type ¹	Description
Note: 1. I = Input; O = Output; P = Power; GND = Ground.			

5.3 Si53362 Pin Descriptions

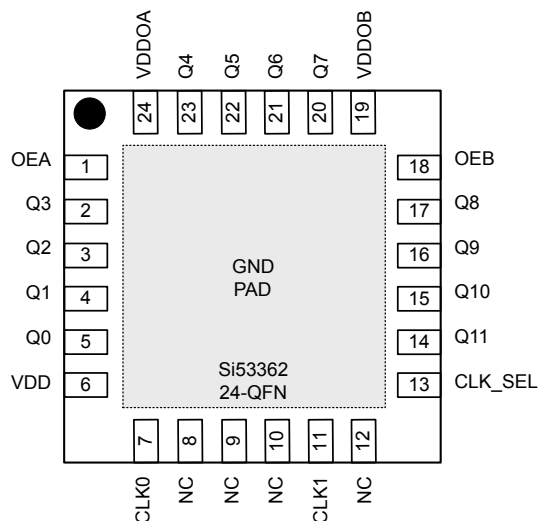


Figure 5.3. Si53362 Pin Descriptions

Table 5.3. Si53362 24-QFN Pin Descriptions

Pin	Name	Type ¹	Description
1	OEA	I	Output Enable for Bank A (Q0-Q5). When OEA = HIGH, outputs Q0-Q5 are enabled. This pin contains an internal pull-up resistor, and leaving the pin disconnected enables the outputs. When OEA = LOW, Q0-Q5 are tri-stated.
2	Q3	O	Output Clock 3.
3	Q2	O	Output Clock 2.
4	Q1	O	Output Clock 1.
5	Q0	O	Output Clock 0.
6	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
7	CLK0	I	Input Clock 0.
8	NC	—	No connect. Leave this pin unconnected.
9	NC	—	No connect. Leave this pin unconnected.
10	NC	—	No connect. Leave this pin unconnected.
11	CLK1	I	Input Clock 1.
12	NC	—	No connect. Leave this pin unconnected.
13	CLK_SEL	I	Mux input select pin (LVCMOS). When CLK_SEL is high, CLK1 is selected. When CLK_SEL is low, CLK0 is selected. CLK_SEL contains an internal pull-up resistor.
14	Q11	O	Output Clock 11.
15	Q10	O	Output Clock 10.
16	Q9	O	Output Clock 9.
17	Q8	O	Output Clock 8.

Pin	Name	Type ¹	Description
18	OEB	I	Output Enable for Bank B (Q6-Q11). When OEB = HIGH, outputs Q6-Q11 are enabled. This pin contains an internal pull-up resistor, and leaving the pin disconnected enables the outputs. When OEB = LOW, Q6-Q11 are tri-stated.
19	VDDOB	P	Output voltage supply—Bank B (Outputs: Q6 to Q11). Bypass with 1.0 μ F capacitor and place as close to the VDDOB pin as possible.
20	Q7	O	Output Clock 7.
21	Q6	O	Output Clock 6.
22	Q5	O	Output Clock 5.
23	Q4	O	Output Clock 4.
24	VDDOA	P	Output voltage supply—Bank A (Outputs: Q0 to Q5). Bypass with 1.0 μ F capacitor and place as close to the VDDOA pin as possible.
GND Pad	Exposed Ground Pad	GND	Ground Pad - Power supply ground and thermal relief. The exposed ground pad is thermally connected to the die to improve the heat transfer out of the package. The ground pad must be connected to GND to ensure device specifications are met.

Note:

1. I = Input; O = Output; P = Power; GND = Ground.

5.4 Si53365 Pin Descriptions

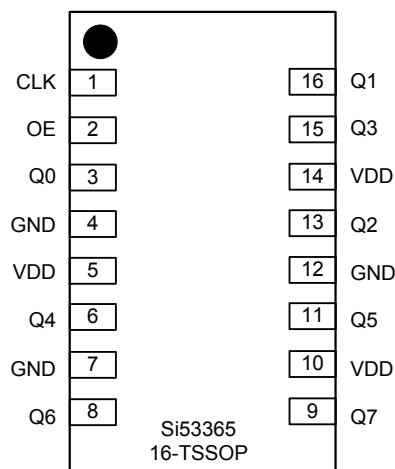


Figure 5.4. Si53365 Pin Descriptions

Table 5.4. Si53365 16-TSSOP Pin Descriptions

Pin	Name	Type ¹	Description
1	CLK	I	Input Clock.
2	OE	I	Output enable. When OE= high, the clock outputs are enabled. When OE= low, the clock outputs are low. OE features an internal pull-up resistor, and may be left unconnected.
3	Q0	O	Output Clock 0.
4	GND	GND	Ground.
5	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
6	Q4	O	Output Clock 4.
7	GND	GND	Ground.
8	Q6	O	Output Clock 6.
9	Q7	O	Output Clock 7.
10	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
11	Q5	O	Output Clock 5.
12	GND	GND	Ground.
13	Q2	O	Output Clock 2.
14	VDD	P	Core voltage supply. Bypass with 1.0 μ F capacitor and place as close to the VDD pin as possible.
15	Q3	O	Output Clock 3.
16	Q1	O	Output Clock 1.

Note:

1. I = Input; O = Output; P = Power; GND = Ground.

6. Package Outline

6.1 16-Pin TSSOP Package

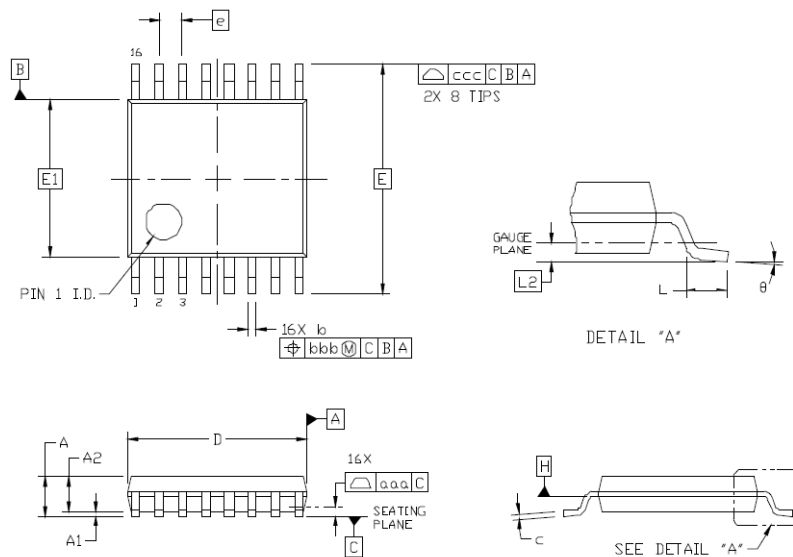


Figure 6.1. 16-Pin TSSOP Package

Table 6.1. 16-Pin TSSOP Package Dimensions

Dimension	Min	Nom	Max
A	—	—	1.20
A1	0.05	—	0.15
A2	0.80	1.00	1.05
b	0.19	—	0.30
c	0.09	—	0.20
D	4.90	5.00	5.10
E	6.40 BSC		
E1	4.30	4.40	4.50
e	0.65 BSC		
L	0.45	0.60	0.75
L2	0.25 BSC		
θ	0°	—	8°
aaa	0.10		
bbb	0.10		
ccc	0.20		

Dimension	Min	Nom	Max
Note: 1. All dimensions shown are in millimeters (mm) unless otherwise noted. 2. Dimensioning and Tolerancing per ANSI Y14.5M-1994. 3. This drawing conforms to the JEDEC Solid State Outline MO-220. 4. Recommended card reflow profile is per the JEDEC/IPC J-STD-020C specification for Small Body Components.			



Dimension	Min	Nom	Max
A	0.80	0.85	0.90
A1	0.00	0.02	0.05
b	0.18	0.25	0.30
D	3.00 BSC.		
D2	1.65	1.70	1.75
e	0.50 BSC.		
E	3.00 BSC.		
E2	1.65	1.70	1.75
L	0.30	0.40	0.50
aaa	—	—	0.10
bbb	—	—	0.10
ccc	—	—	0.08
ddd	—	—	0.10
eee	—	—	0.05

1. All dimensions shown are in millimeters (mm) unless otherwise noted.
2. Dimensioning and Tolerancing per ANSI Y14.5M-1994.

6.3 24-Pin QFN Package

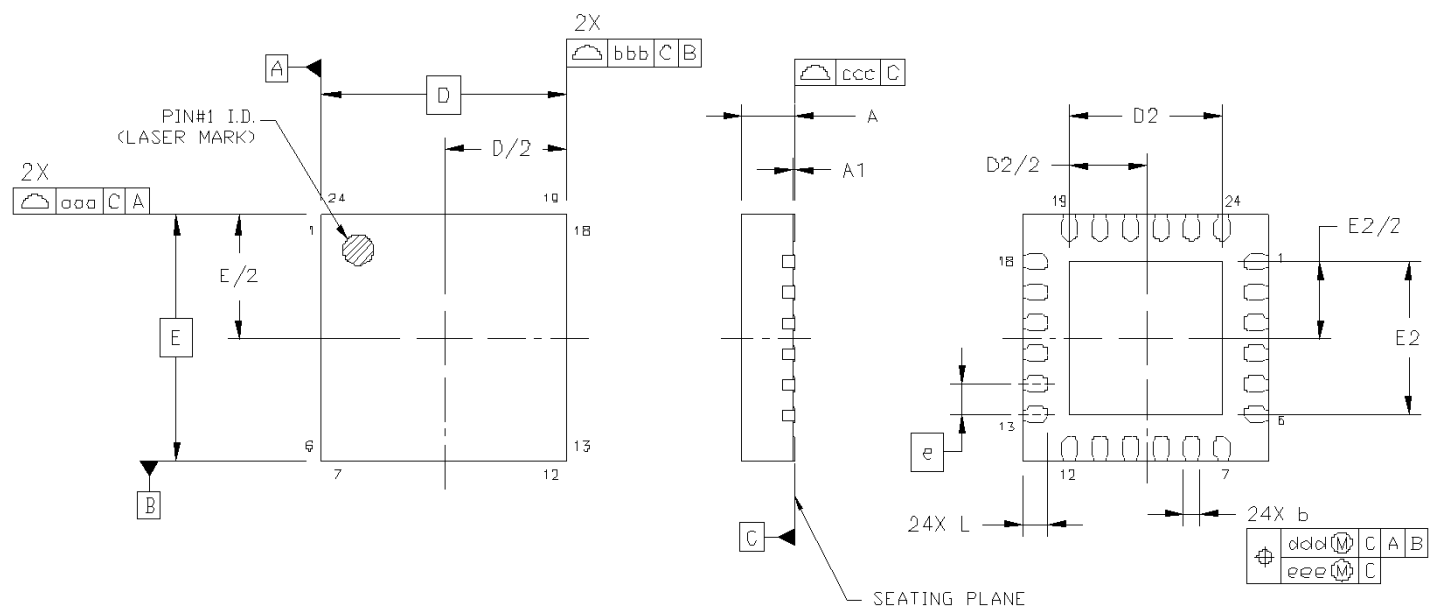


Figure 6.3. 24-Pin QFN Package

Table 6.3. 24-QFN Package Dimensions

Dimension	Min	Nom	Max
A	0.80	0.85	0.90
A1	0.00	0.02	0.05
b	0.18	0.25	0.30
D	4.00 BSC.		
D2	2.35	2.50	2.65
e	0.50 BSC.		
E	4.00 BSC.		
E2	2.35	2.50	2.65
L	0.30	0.40	0.50
aaa	0.10		
bbb	0.10		
ccc	0.08		
ddd	0.10		
eee	0.05		

Note:

1. All dimensions shown are in millimeters (mm) unless otherwise noted.
2. Dimensioning and Tolerancing per ANSI Y14.5M-1994.
3. This drawing conforms to JEDEC outline MO-220, variation VGGD-8.
4. Recommended card reflow profile is per the JEDEC/IPC J-STD-020C specification for Small Body Components.

7. PCB Land Pattern

7.1 16-Pin TSSOP Land Pattern

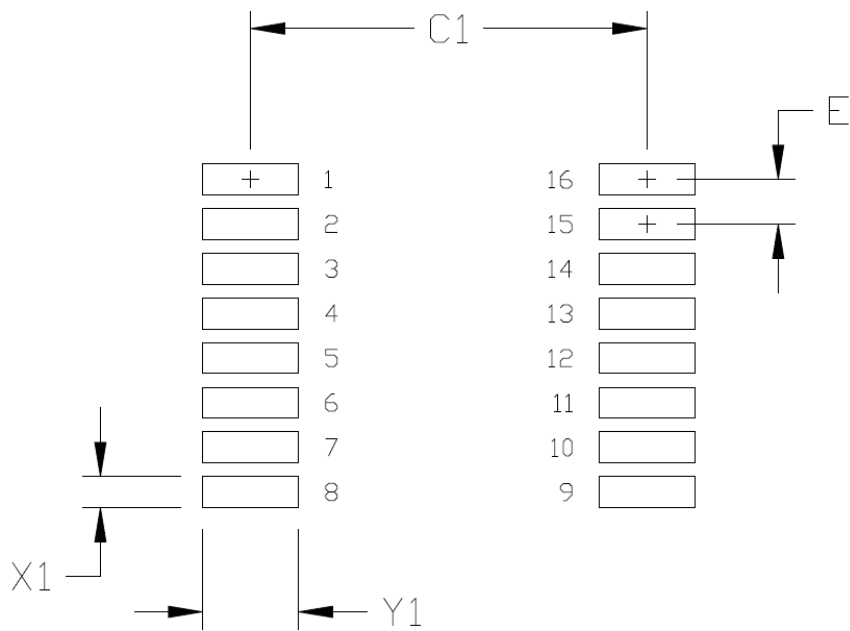


Figure 7.1. 16-Pin TSSOP Land Pattern

Table 7.1. 16-Pin TSSOP Land Pattern Dimensions

Dimension	Feature	(mm)
C1	Pad Column Spacing	5.80
E	Pad Row Pitch	0.65
X1	Pad Width	0.45
Y1	Pad Length	1.40

Notes:

- 1. This Land Pattern Design is based on IPC-7351 specifications for Density Level B (Median Land Protrusion).
- 2. All feature sizes shown are at Maximum Material Condition (MMC) and a card fabrication tolerance of 0.05 mm is assumed.

7.2 16-Pin QFN Land Pattern

Figure 7.2. 16-Pin QFN Land Pattern

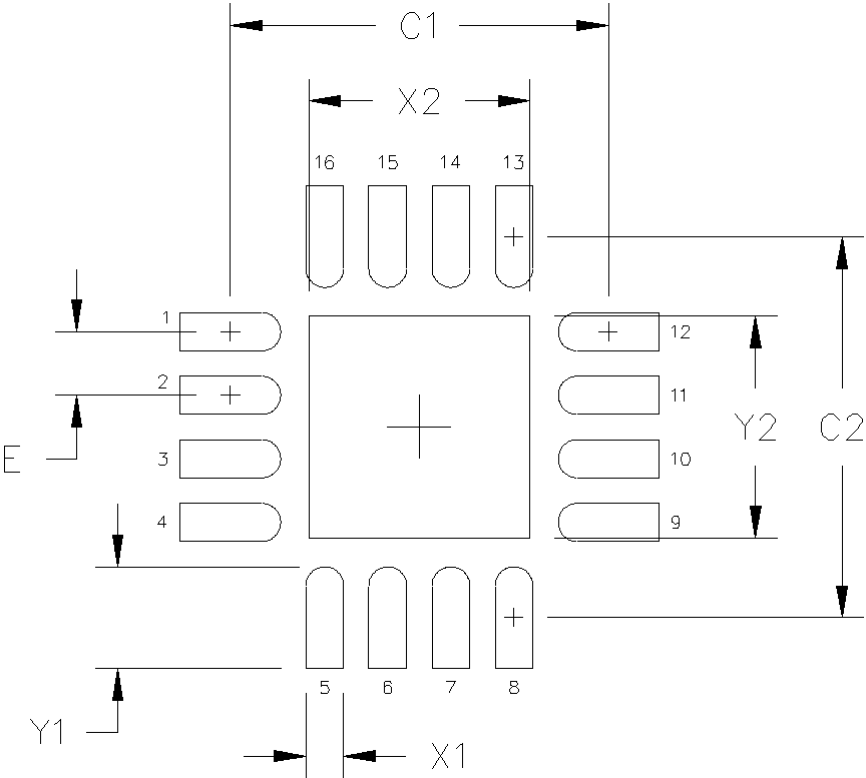


Table 7.2. 16-QFN Land Pattern Dimensions

Dimension	mm
C1	3.00
C2	3.00
E	0.50
X1	0.30
Y1	0.80
X2	1.75
Y2	1.75

Dimension	mm
Notes: General 1. All dimensions shown are in millimeters (mm). 2. This Land Pattern Design is based on the IPC-7351 guidelines. 3. All dimensions shown are at Maximum Material Condition (MMC). Least Material Condition (LMC) is calculated based on a Fabrication Allowance of 0.05 mm. Solder Mask Design 1. All metal pads are to be non-solder mask defined (NSMD). Clearance between the solder mask and the metal pad is to be 60 μ m minimum, all the way around the pad. Stencil Design 1. A stainless steel, laser-cut and electro-polished stencil with trapezoidal walls should be used to assure good solder paste release. 2. The stencil thickness should be 0.125 mm (5 mils). 3. The ratio of stencil aperture to land pad size should be 1:1 for all perimeter pads. 4. A 2 x 2 array of 0.65 mm square openings on a 0.90 mm pitch should be used for the center ground pad. Card Assembly 1. A No-Clean, Type-3 solder paste is recommended. 2. The recommended card reflow profile is per the JEDEC/IPC J-STD-020 specification for Small Body Components.	

7.3 24-Pin QFN Land Pattern

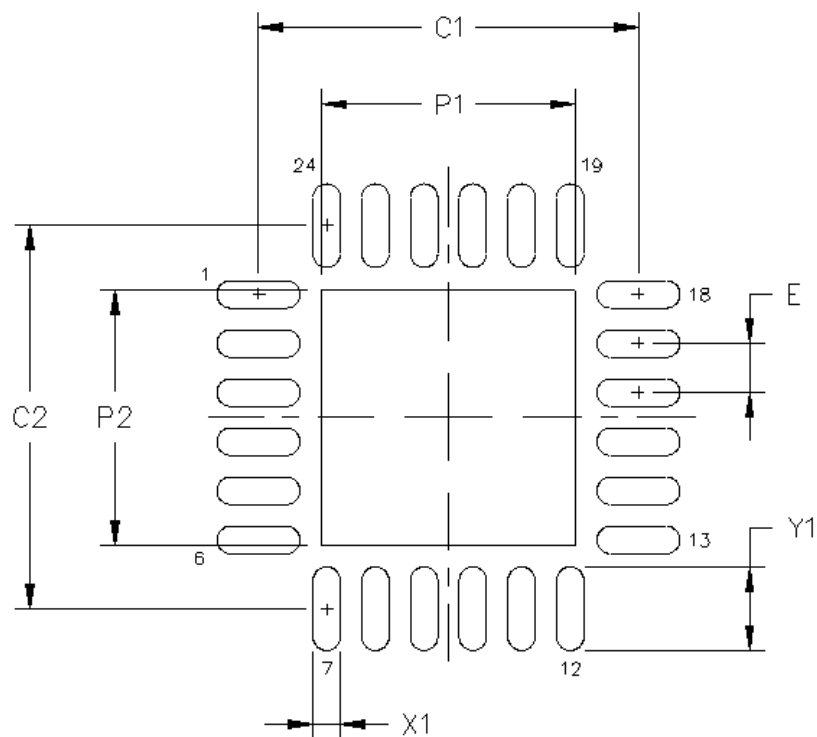


Figure 7.3. 24-Pin QFN Land Pattern

Table 7.3. 24-QFN Land Pattern Dimensions

Dimension	mm
P1	2.55
P2	2.55
X1	0.25
Y1	0.80
C1	3.90
C2	3.90
E	0.50

Dimension	mm
Notes: General 1. All dimensions shown are in millimeters (mm). 2. This Land Pattern Design is based on the IPC-7351 guidelines. Solder Mask Design 1. All metal pads are to be non-solder mask defined (NSMD). Clearance between the solder mask and the metal pad is to be 60 μ m minimum, all the way around the pad. Stencil Design 1. A stainless steel, laser-cut and electro-polished stencil with trapezoidal walls should be used to assure good solder paste release. 2. The stencil thickness should be 0.125 mm (5 mils). 3. The ratio of stencil aperture to land pad size should be 1:1 for all perimeter pads. 4. A 2 x 2 array of 1.10 mm x 1.10 mm openings on 1.30 mm pitch should be used for the center ground pad. Card Assembly 1. A No-Clean, Type-3 solder paste is recommended. 2. The recommended card reflow profile is per the JEDEC/IPC J-STD-020 specification for Small Body Components.	

8. Top Markings

8.1 Si53360/65 Top Markings

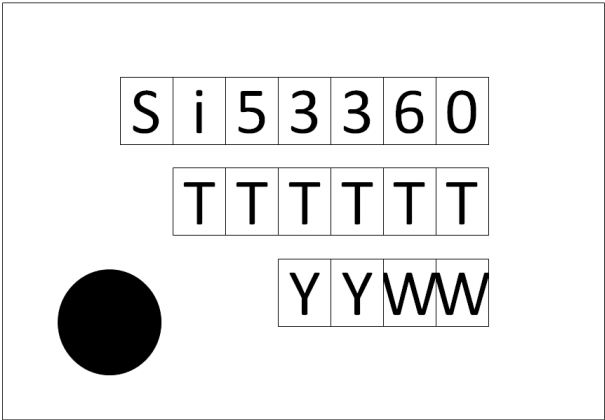


Figure 8.1. Si53360 Top Marking

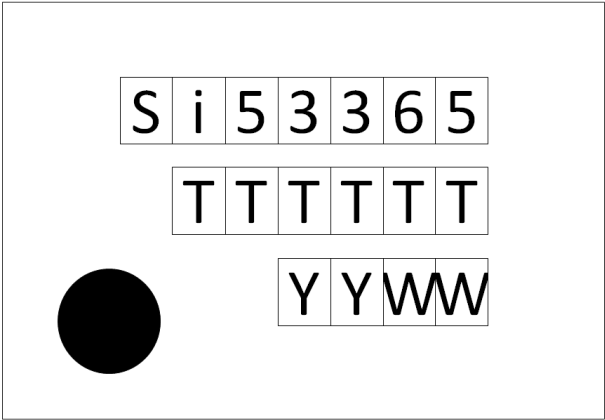


Figure 8.2. Si53365 Top Marking

Table 8.1. Si53360/65 Top Marking Explanation

Mark Method:	Laser	
Font Size:	2.0 Point (0.71 mm) Right-Justified	
Line 1 Marking:	Device Part Number	53360 for Si53360, 53365 for Si53365
Line 2 Marking:	TTTTTT = Mfg Code	Manufacturing Code from the Assembly Purchase Order form.
Line 3 Marking	YY = Year, WW = Work Week	Corresponds to the year and work week of the mold date.

8.2 Si53361 Top Marking

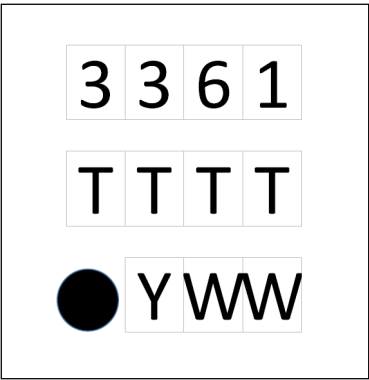


Figure 8.3. Si53361 Top Marking

Table 8.2. Si53361 Top Marking Explanation

Mark Method:	Laser	
Font Size:	2.0 Point (0.71 mm) Center-aligned	
Line 1 Marking:	Device Part Number	3361 for Si53361
Line 2 Marking:	TTTTTT = Mfg Code	Manufacturing Code from the Assembly Purchase Order form.
Line 3 Marking	YY = Year, WW = Work Week	Corresponds to the year and work week of the mold date.

8.3 Si53362 Top Marking

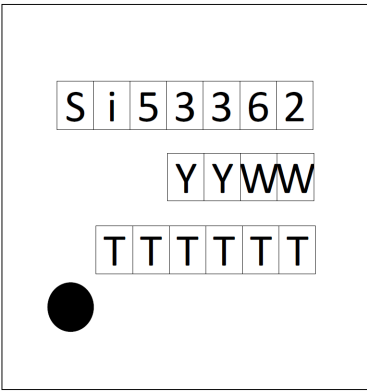


Figure 8.4. Si53362 Top Marking

Table 8.3. Si53362 Top Marking Explanation

Mark Method:	Laser	
Font Size:	2.0 Point (0.71 mm) Right-justified	
Line 1 Marking:	Device Part Number	53362 for Si53362
Line 2 Marking:	TTTTTT = Mfg Code	Manufacturing Code from the Assembly Purchase Order form.
Line 3 Marking	YY = Year, WW = Work Week	Corresponds to the year and work week of the mold date.

9. Revision History

Revision 1.3

December, 2018

- Changed CLK_SEL from pull-down resistor to pull-up resistor.
- Updated output state to low when OE pin is asserted low on Si53365.

Revision 1.2

December, 2016

- Introduced Si53361 and Si53362 new products.
- Merged Si53360/65 datasheets with the new products to create a single LVCMOS buffer datasheet.
- Added Core supply current spec at multiple supply voltages.
- Added “Internal pull-down resistor” typical spec.



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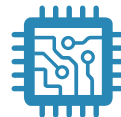
Portfolio

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