

CMOS Digital Integrated Circuits Silicon Monolithic

7UL1G126FS

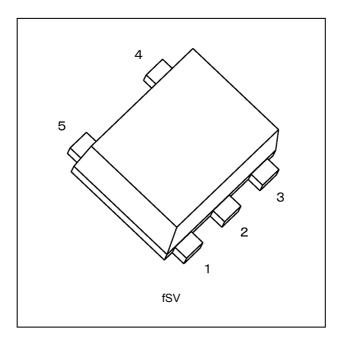
1. Functional Description

· Bus Buffer with 3-State Output

2. Features

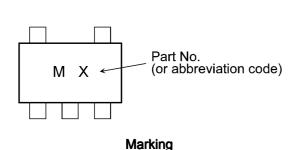
- (1) High output current: ± 8.0 mA (min) at $V_{CC} = 3.0$ V
- (2) Super high speed operation: t_{pd} = 2.5 ns (typ.) at V_{CC} = 3.3 V, C_L = 15 pF
- (3) Operation voltage range: $V_{CC} = 0.9 \text{ to } 3.6 \text{ V}$
- (4) 3.6 V tolerant inputs
- (5) 3.6 V power down protection output

3. Packaging



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4. Marking and Pin Assignment



IN A 1 5 Vcc GND 2 4 OUT Y

Pin Assignment (Top view)

Start of commercial production



5. IEC Logic Symbol



6. Truth Table

G	А	Y
L	X	Z
Н	L	L
Н	Н	Н

X: Don't care

Z: High impedance

7. Absolute Maximum Ratings (Note) (Unless otherwise specified, T_a = 25 °C)

Characteristics	Symbol	Note	Rating	Unit
Supply voltage	V _{CC}		-0.5 to 4.6	V
Input voltage	V _{IN}		-0.5 to 4.6	V
DC output voltage	V _{OUT}	(Note 1)	-0.5 to 4.6	V
		(Note 2)	-0.5 to V _{CC} + 0.5	
Input diode current	I _{IK}		-20	mA
Output diode current	I _{OK}	(Note 3)	-20	mA
DC output current	I _{OUT}		±25	mA
V _{CC} /ground current	Icc		±50	mA
Power dissipation	P _D		50	mW
Storage temperature	T _{stg}		-65 to 150	°C

Note: Exceeding any of the absolute maximum ratings, even briefly, lead to deterioration in IC performance or even destruction.

Using continuously under heavy loads (e.g. the application of high temperature/current/voltage and the significant change in temperature, etc.) may cause this product to decrease in the reliability significantly even if the operating conditions (i.e. operating temperature/current/voltage, etc.) are within the absolute maximum ratings and the operating ranges.

Please design the appropriate reliability upon reviewing the Toshiba Semiconductor Reliability Handbook ("Handling Precautions"/"Derating Concept and Methods") and individual reliability data (i.e. reliability test report and estimated failure rate, etc).

Note 1: V_{CC} = 0 V or high impedance condition

Note 2: High (H) or Low (L) state. I_{OUT} absolute maximum rating must be observed.

Note 3: V_{OUT} < GND



8. Operating Ranges (Note)

Characteristics	Symbol	Note	Test Condition	Rating	Unit
Supply voltage	V _{CC}		_	0.9 to 3.6	V
Input voltage	V _{IN}		_	0 to 3.6	V
Output voltage	V _{OUT}	(Note 1)	_	0 to 3.6	V
		(Note 2)	_	0 to V _{CC}	
Output current	I _{OH} ,I _{OL}		V _{CC} = 3.0 to 3.6 V	±8.0	mA
			V _{CC} = 2.3 to 2.7 V	±4.0	
			V _{CC} = 1.65 to 1.95 V	±3.0	
			V _{CC} = 1.4 to 1.6 V	±1.7	
			V _{CC} = 1.1 to 1.3 V	±0.3	
			V _{CC} = 0.9 V	±0.02	
Operating temperature	T _{opr}		_	-40 to 85	°C
Input rise and fall time	dt/dv		V _{IN} = 0.8 to 2.0 V, V _{CC} = 3.0 V	0 to 10	ns/V

Note: The operating ranges must be maintained to ensure the normal operation of the device.

Unused inputs must be tied to either $V_{\mbox{\footnotesize CC}}$ or GND.

Note 1: $V_{CC} = 0 \text{ V}$ or high impedance condition

Note 2: High (H) or Low (L) state.



9. Electrical Characteristics

9.1. DC Characteristics (Unless otherwise specified, T_a = 25 °C)

Characteristics	Symbol	Test Condition		V _{CC} (V)	Min	Тур.	Max	Unit
High-level input voltage	V _{IH}	_		0.9	V_{CC}	_	_	V
				1.1 to 1.3	V _{CC} × 0.70	_	_	
				1.4 to 1.6	V _{CC} × 0.65	_	_	
				1.65 to 1.95	V _{CC} × 0.65	_	_	
				2.3 to 2.7	1.7	_	_	
				3.0 to 3.6	2.0	_	_	
Low-level input voltage	V _{IL}	_		0.9	_	_	GND	V
				1.1 to 1.3	_	_	$V_{CC} \times 0.30$	
				1.4 to 1.6	_	_	$V_{CC} \times 0.35$	
				1.65 to 1.95	_	_	$V_{CC} \times 0.35$	
				2.3 to 2.7	_	_	0.7	
				3.0 to 3.6	_	_	0.8	
High-level output voltage	V _{OH}	V _{IN} = V _{IH}	I _{OH} = -0.02 mA	0.9	0.75	_	_	V
			I _{OH} = -0.3 mA	1.1 to 1.3	V _{CC} × 0.75	_	_	
			I _{OH} = -1.7 mA	1.4 to 1.6	V _{CC} × 0.75	_	_	
			I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} -0.45	_	_	
			I _{OH} = -4.0 mA	2.3 to 2.7	2.0	_	_	
			I _{OH} = -8.0 mA	3.0 to 3.6	2.48	_	_	
Low-level output voltage	V _{OL}	$V_{IN} = V_{IH}$ or V_{IL}	I _{OL} = 0.02 mA	0.9	_	_	0.1	V
			I_{OL} = 0.3 mA	1.1 to 1.3	_		$V_{CC} \times 0.25$	
			I _{OL} = 1.7 mA	1.4 to 1.6	_	_	$V_{CC} \times 0.25$	
			I_{OL} = 3.0 mA	1.65 to 1.95	_		0.45	
			I_{OL} = 4.0 mA	2.3 to 2.7	_		0.4	
			I _{OL} = 8.0 mA	3.0 to 3.6	_	_	0.4	
Input leakage current	I _{IN}	V _{IN} = 0 to 3.6 V		0 to 3.6	_	_	±0.1	μΑ
3-state output OFF-state leakage current	l _{OZ}	$V_{IN} = V_{IH} \text{ or } V_{IL},$ $V_{OUT} = 0 \text{ to } 3.6 \text{ V}$		0.9 to 3.6	_	l	±1.0	μА
Power-OFF leakage current	I _{OFF}	V _{IN} = 0 to 3.6 V, V _{OUT} = 0 to 3.6 V		0	_	_	1.0	μА
Quiescent supply current	I _{CC}	$V_{IN} = V_{CC}$ or GND		3.6	_	_	1.0	μА



9.2. DC Characteristics (Unless otherwise specified, T_a = -40 to 85 °C)

Characteristics	Symbol	Test Condition	on	V _{CC} (V)	Min	Max	Unit
High-level input voltage	V _{IH}	_	0.9	V _{CC}	_	V	
				1.1 to 1.3	$V_{CC} \times 0.70$	_	
				1.4 to 1.6	$V_{CC} \times 0.65$	_	
				1.65 to 1.95	V _{CC} × 0.65	_	
				2.3 to 2.7	1.7	_	
				3.0 to 3.6	2.0	_	
Low-level input voltage	V _{IL}	_		0.9	_	GND	V
				1.1 to 1.3	_	$V_{CC} \times 0.30$	
				1.4 to 1.6	_	V _{CC} × 0.35	
				1.65 to 1.95	_	V _{CC} × 0.35	
				2.3 to 2.7	_	0.7	
				3.0 to 3.6	_	0.8	
High-level output voltage	V _{OH}	V _{IN} = V _{IH}	I _{OH} = -0.02 mA	0.9	0.75	_	V
			$I_{OH} = -0.3 \text{ mA}$	1.1 to 1.3	$V_{CC} \times 0.75$	_	
			I _{OH} = -1.7 mA	1.4 to 1.6	V _{CC} × 0.75	_	
			$I_{OH} = -3.0 \text{ mA}$	1.65 to 1.95	V _{CC} -0.45	_	
			I _{OH} = -4.0 mA	2.3 to 2.7	2.0	_	
			$I_{OH} = -8.0 \text{ mA}$	3.0 to 3.6	2.48	_	
Low-level output voltage	V _{OL}	V _{IN} = V _{IH} or V _{IL}	I _{OL} = 0.02 mA	0.9	_	0.1	V
			I_{OL} = 0.3 mA	1.1 to 1.3	_	V _{CC} × 0.25	
			I _{OL} = 1.7 mA	1.4 to 1.6	_	V _{CC} × 0.25	
			I _{OL} = 3.0 mA	1.65 to 1.95	_	0.45	
			I _{OL} = 4.0 mA	2.3 to 2.7	_	0.4	
			I _{OL} = 8.0 mA	3.0 to 3.6	_	0.4	
Input leakage current	I _{IN}	V _{IN} = 0 to 3.6 V		0 to 3.6	_	±0.5	μΑ
3-state output OFF-state leakage current	I _{OZ}	$V_{IN} = V_{IH} \text{ or } V_{IL},$ $V_{OUT} = 0 \text{ to } 3.6 \text{ V}$		0.9 to 3.6		±10.0	μА
Power-OFF leakage current	I _{OFF}	V _{IN} = 0 to 3.6 V, V _{OUT} = 0 to 3.6 V		0		10.0	μА
Quiescent supply current	Icc	V _{IN} = V _{CC} or GND		3.6	_	10.0	μА



9.3. AC Characteristics (Unless otherwise specified, T_a = 25 °C, Input: t_r = t_f = 3 ns)

Characteristics	Symbol	Note	Test Condition	V _{CC} (V)	C _L (pF)	Min	Тур.	Max	Unit
Propagation delay time	t _{PLH} ,t _{PHL}		$R_L = 1 M\Omega$	0.9	10	_	20.7	_	ns
				1.1 to 1.3		_	10.5	18.4	
				1.4 to 1.6		_	6.1	8.5	
				1.65 to 1.95		_	4.5	6.2	
				2.3 to 2.7		_	3.0	3.9	
				3.0 to 3.6		_	2.3	3.1	
			R _L = 1 MΩ	0.9	15	_	22.9	_	
				1.1 to 1.3		_	11.5	21.5	
				1.4 to 1.6		_	6.7	9.3	
				1.65 to 1.95		_	4.9	6.9	
				2.3 to 2.7		_	3.2	4.4	
				3.0 to 3.6		_	2.5	3.4	
			R _L = 1 MΩ	0.9	30	_	30.6	_	
				1.1 to 1.3		_	14.8	29.6	
				1.4 to 1.6		_	8.5	13.1	
				1.65 to 1.95		_	6.3	9.2	
				2.3 to 2.7		_	4.3	5.7	
				3.0 to 3.6		_	3.3	4.4	
Output enable time	t _{PZL} ,t _{PZH}		R _L = 100 kΩ	0.9	10	_	23.0	_	ns
			$R_L = 5 k\Omega$	1.1 to 1.3		_	10.8	18.7	
				1.4 to 1.6		_	6.2	9.5	
				1.65 to 1.95		_	4.5	7.0	
				2.3 to 2.7		_	3.1	4.6	
				3.0 to 3.6		_	2.5	3.6	
			R _L = 100 kΩ	0.9	15	_	25.2	_	
			$R_L = 5 k\Omega$	1.1 to 1.3		_	11.8	20.7	
				1.4 to 1.6		_	6.9	10.0	
				1.65 to 1.95		_	5.1	7.3	
				2.3 to 2.7		_	3.4	4.8	
				3.0 to 3.6		_	2.8	3.7	
			R _L = 100 kΩ	0.9	30	_	31.0	_	
			$R_L = 5 k\Omega$	1.1 to 1.3		_	15.7	30.7	
				1.4 to 1.6	1 1	_	8.6	13.1	
				1.65 to 1.95		_	6.6	9.2	
				2.3 to 2.7		_	4.5	5.8	
				3.0 to 3.6	1 1	_	3.7	4.5	
Output disable time	t_{PLZ},t_{PHZ}		R _L = 100 kΩ	0.9	10	_	120.7	_	ns
			$R_L = 5 k\Omega$	1.1 to 1.3		_	10.6	16.0	
				1.4 to 1.6		_	6.3	9.1	
				1.65 to 1.95		_	7.3	8.6	
				2.3 to 2.7		_	5.1	6.4	
				3.0 to 3.6		_	5.8	7.9	
			R _L = 100 kΩ	0.9	15	_	152.4	_	
			R _L = 5 kΩ	1.1 to 1.3		_	12.2	16.9	
				1.4 to 1.6		_	7.5	9.8	
				1.65 to 1.95		_	8.3	9.6	
				2.3 to 2.7		_	6.0	9.4	
				3.0 to 3.6	1	_	7.1	9.5	

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Characteristics	Symbol	Note	Test Condition	V _{CC} (V)	C _L (pF)	Min	Тур.	Max	Unit
Output disable time	t_{PLZ}, t_{PHZ}		R_L = 100 k Ω	0.9	30	_	246.9	_	ns
			$R_L = 5 k\Omega$	1.1 to 1.3		_	16.9	20.8	
				1.4 to 1.6		_	10.1	13.2	
				1.65 to 1.95		-	12.7	14.6	
				2.3 to 2.7		_	8.6	10.8	
				3.0 to 3.6		-	12.2	14.4	
Input capacitance	C _{IN}		_	3.6	_	_	3	_	pF
Power dissipation capacitance	C _{PD}	(Note 1)		0.9 to 3.6	_	-	9		pF

Note 1: C_{PD} is defined as the value of the internal equivalent capacitance which is calculated from the operating current consumption without load. Average operating current can be obtained by the equation. $I_{CC(opr)} = C_{PD} \cdot V_{CC} \cdot f_{IN} + I_{CC}$

9.4. AC Characteristics (Unless otherwise specified, T_a = -40 to 85 °C, Input: t_r = t_f = 3 ns)

Characteristics	Symbol	Test Condition	V _{CC} (V)	C _L (pF)	Min	Max	Unit
Propagation delay time	t _{PLH} ,t _{PHL}	$R_L = 1 M\Omega$	0.9	10	_	_	ns
			1.1 to 1.3		1.0	34.2	
			1.4 to 1.6		1.0	10.0	
			1.65 to 1.95		1.0	6.7]
			2.3 to 2.7		1.0	4.4	
			3.0 to 3.6]	1.0	3.7	
		$R_L = 1 M\Omega$	0.9	15	_	_	
			1.1 to 1.3		1.0	37.2	
			1.4 to 1.6		1.0	11.2	
			1.65 to 1.95		1.0	7.1	
			2.3 to 2.7		1.0	5.0	
			3.0 to 3.6		1.0	3.9	
		$R_L = 1 M\Omega$	0.9	30	_	_	
			1.1 to 1.3		1.0	56.0	
			1.4 to 1.6		1.0	15.9	
			1.65 to 1.95		1.0	9.6	
			2.3 to 2.7		1.0	6.1	
			3.0 to 3.6		1.0	4.8	
Output enable time	t_{PZL}, t_{PZH}	R _L = 100 kΩ	0.9	10	_	_	ns
		$R_L = 5 k\Omega$	1.1 to 1.3		1.0	29.8	
			1.4 to 1.6		1.0	11.3	
			1.65 to 1.95		1.0	7.5	
			2.3 to 2.7		1.0	5.2	
			3.0 to 3.6		1.0	4.2	
		R _L = 100 kΩ	0.9	15	_	_	
		$R_L = 5 k\Omega$	1.1 to 1.3		1.0	34.7	
			1.4 to 1.6		1.0	11.1	
			1.65 to 1.95		1.0	8.5	
			2.3 to 2.7]	1.0	5.7]
			3.0 to 3.6		1.0	4.9]
		R _L = 100 kΩ	0.9	30	_	_	
		$R_L = 5 \text{ k}\Omega$	1.1 to 1.3]	1.0	50.5]
			1.4 to 1.6		1.0	15.1	

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Characteristics	Symbol	Test Condition	V _{CC} (V)	C _L (pF)	Min	Max	Unit
Output enable time	t_{PZL}, t_{PZH}	$R_L = 5 k\Omega$	1.65 to 1.95	30	1.0	11.9	ns
			2.3 to 2.7		1.0	7.6	
			3.0 to 3.6		1.0	6.1	
Output disable time	t_{PLZ}, t_{PHZ}	R_L = 100 k Ω	0.9	10	_	_	ns
		$R_L = 5 \text{ k}\Omega$	1.1 to 1.3		1.0	22.4	
			1.4 to 1.6		1.0	10.4	
			1.65 to 1.95		1.0	9.8	
			2.3 to 2.7		1.0	7.2	
			3.0 to 3.6		1.0	9.3	
		R_L = 100 k Ω	0.9	15	_	_	
		$R_L = 5 \text{ k}\Omega$	1.1 to 1.3		1.0	25.1	
			1.4 to 1.6		1.0	11.3	
			1.65 to 1.95		1.0	11.1	
			2.3 to 2.7		1.0	12.4	
			3.0 to 3.6		1.0	13.2	
		R_L = 100 k Ω	0.9	30	_	_	
		$R_L = 5 \text{ k}\Omega$	1.1 to 1.3		1.0	31.9	
			1.4 to 1.6		1.0	14.9	
			1.65 to 1.95]	1.0	16.6	
			2.3 to 2.7]	1.0	12.2	
			3.0 to 3.6		1.0	16.4	

9.5. AC Test Circuit

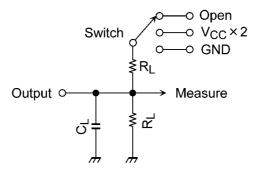
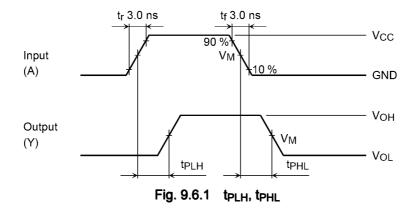


Table 9.5.1 Parameter for AC Test Circuit

Characteristics	Switch
t _{PLH} , t _{PHL}	Open
t _{PLZ} , t _{PZL}	V _{CC} × 2
t _{PHZ} , t _{PZH}	GND



9.6. AC Waveform



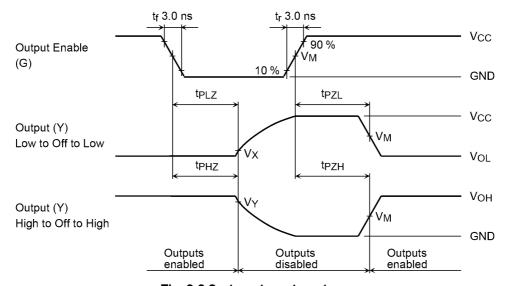


Fig. 9.6.2 t_{PLZ}, t_{PHZ}, t_{PZL}, t_{PZH}

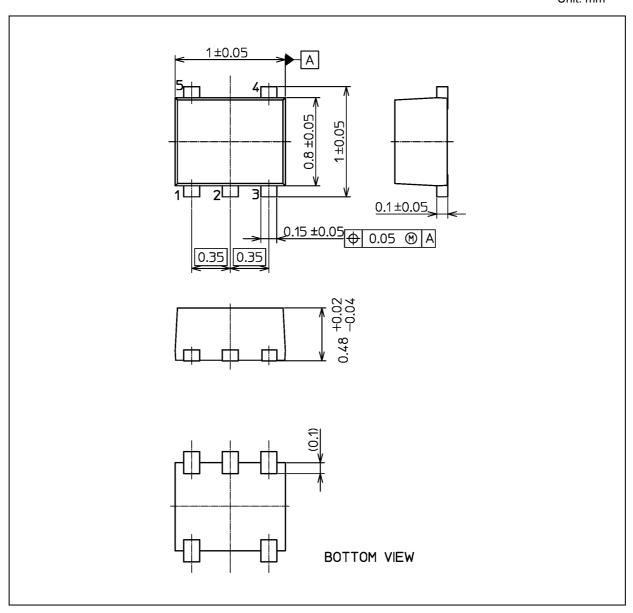
Table 9.6.1 AC Waveform Symbols

Symbol	V _{CC} = 3.3 ± 0.3 V	V _{CC} = 2.5 ± 0.2 V	V _{CC} = 1.8 ± 0.15 V	V _{CC} = 1.5 ± 0.1 V	V _{CC} = 1.2 ± 0.1 V	V _{CC} = 0.9 V
V_{IN}	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
V_X	V _{OL} + 0.3 V	V _{OL} + 0.15 V	V _{OL} + 0.15 V	V _{OL} + 0.1 V	V _{OL} + 0.1 V	V _{OL} + 0.1 V
V_{Y}	V _{OH} - 0.3 V	V _{OH} - 0.15 V	V _{OH} - 0.15 V	V _{OH} - 0.1 V	V _{OH} - 0.1 V	V _{OH} - 0.1 V



Package Dimensions

Unit: mm



Weight: 1.0 mg (typ.)

	Package Name(s)	
Nickname: fSV		



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Офис по работе с юридическими лицами:

105318, г. Москва, ул. Щербаковская д. 3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru moschip.ru_6 moschip.ru 4 moschip.ru 9