

7UL1G08FS,RF(B Datasheet

TOSHIBA

DiGi Electronics Part Number Manufacturer Manufacturer Product Number Description Detailed Description 7UL1G08FS,RF(B-DG **Toshiba Semiconductor and Storage** 7UL1G08FS,RF(B L-MOS LVP IC VCC: 2.3V-3.6V, SOT AND Gate IC 1 Channel fSV

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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
7UL1G08FS,RF(B	Toshiba Semiconductor and Storage
Series:	Product Status:
7UL	Active
Logic Type:	Number of Circuits:
AND Gate	1
Number of Inputs:	Features:
2	
Voltage - Supply:	Current - Quiescent (Max):
0.9V ~ 3.6V	1 μΑ
Current - Output High, Low:	Input Logic Level - Low:
8mA, 8mA	0.7V ~ 0.8V
Input Logic Level - High:	Max Propagation Delay @ V, Max CL:
1.7V ~ 2V	4.4ns @ 3.3V, 30pF
Operating Temperature:	Grade:
-40°C ~ 125°C	-
Qualification:	Mounting Type:
	Surface Mount
Supplier Device Package:	Package / Case:
fSV	SOT-953

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	
REACH Unaffected	

7UL1G08FS

CMOS Digital Integrated Circuits Silicon Monolithic

7UL1G08FS

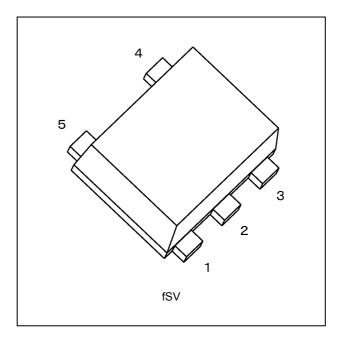
1. Functional Description

• 2-Input AND Gate

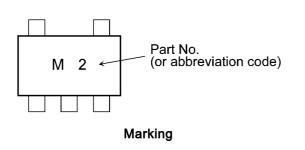
2. Features

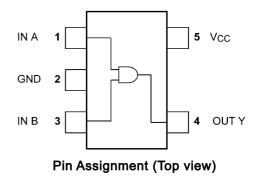
- (1) Wide operating temperature range: $T_{opr} = -40$ to 125 °C
- (2) High output current: $\pm 8.0 \text{ mA}$ (min) at V_{CC} = 3.0 V
- (3) Super high speed operation: t_{pd} = 2.5 ns (typ.) at V_{CC} = 3.3 V, C_L = 15 pF
- (4) Operation voltage range: $V_{CC} = 0.9$ to 3.6 V
- (5) 3.6 V tolerant inputs
- (6) 3.6 V power down protection output

3. Packaging



4. Marking and Pin Assignment





Start of commercial production 2021-06

5. IEC Logic Symbol



6. Truth Table

Input A	Input B	Output Y
L	L	L
L	Н	L
Н	L	L
Н	Н	Н

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	Ι _{ΟΚ}	(Note 3)	-20	mA
DC output current	I _{OUT}		±25	mA
V _{CC} /ground current	I _{CC}		±50	mA
Power dissipation	PD		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

Note 2: High (H) or Low (L) state. $I_{\mbox{OUT}}$ 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 125	°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_{CC} or GND.

Note 1: $V_{CC} = 0 V$

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	1	V _{CC} (V)	Min	Тур.	Max	Unit
High-level input voltage	V _{IH}			0.9	V _{CC}	_	—	V
				1.1 to 1.3	$V_{CC} imes 0.70$		_	1
				1.4 to 1.6	$V_{CC} imes 0.65$	_	_	1
				1.65 to 1.95	$V_{CC} imes 0.65$	_	_	1
				2.3 to 2.7	1.7	_	_	
				3.0 to 3.6	2.0	_	—	
Low-level input voltage	VIL	—		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	$V_{CC} \times 0.75$	_	—	
			I _{OH} = -1.7 mA	1.4 to 1.6	$V_{CC} \times 0.75$		—	
			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}	$V_{IN} = V_{IH} \text{ or } V_{IL}$	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	μA
Power-OFF leakage current	I _{OFF}	V _{IN} = 0 to 3.6 V, V _{OUT} = 0 to 3.6 V		0	—	_	1.0	μA
Quiescent supply current	I _{CC}	$V_{IN} = V_{CC}$ or GND		3.6	_		1.0	μA

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

Characteristics	Symbol	Test Conditio	n	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	$V_{CC} \times 0.65$	_	
				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 _{OF}	V _{OH}	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	$V_{CC} \times 0.75$	_	
			I _{OH} = -1.7 mA	1.4 to 1.6	$V_{CC} imes 0.75$	—	
			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	—	±0.5	μA
Power-OFF leakage current	I _{OFF}	V _{IN} = 0 to 3.6 V, V _{OUT} = 0 to 3.6 V		0	—	10.0	μA
Quiescent supply current	I _{CC}	$V_{IN} = V_{CC}$ or GND		3.6	—	10.0	μA

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9.3. DC Characteristics (Unless otherwise specified, T_a = -40 to 125 °C)

Characteristics	Symbol	Test Conditio	'n	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	$V_{CC} \times 0.65$	_	
				2.3 to 2.7	1.7	—	
				3.0 to 3.6	2.0	—	
Low-level input voltage	VIL	—		0.9	—	GND	V
				1.1 to 1.3	—	$V_{CC} imes 0.30$	
				1.4 to 1.6	—	$V_{CC} imes 0.35$	
				1.65 to 1.95	_	$V_{CC} imes 0.35$	
				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	$V_{CC} imes 0.73$	—	
			I _{OH} = -1.7 mA	1.4 to 1.6	$V_{CC} imes 0.73$	—	
			I _{OH} = -3.0 mA	1.65 to 1.95	V _{CC} -0.5	—	
			I _{OH} = -4.0 mA	2.3 to 2.7	1.95	—	
			I _{OH} = -8.0 mA	3.0 to 3.6	2.4	_	
Low-level output voltage	V _{OL}	$V_{IN} = V_{IH} \text{ or } V_{IL}$	I _{OL} = 0.02 mA	0.9	—	0.1	V
			I _{OL} = 0.3 mA	1.1 to 1.3	—	$V_{CC} imes 0.27$	
			I _{OL} = 1.7 mA	1.4 to 1.6	_	$V_{CC} imes 0.27$	
			I _{OL} = 3.0 mA	1.65 to 1.95	—	0.5	
			I _{OL} = 4.0 mA	2.3 to 2.7	—	0.45	
			I _{OL} = 8.0 mA	3.0 to 3.6	_	0.45	
Input leakage current	I _{IN}	V _{IN} = 0 to 3.6 V		0 to 3.6	_	±20	μA
Power-OFF leakage current	I _{OFF}	V _{IN} = 0 to 3.6 V, V _{OUT} = 0 to 3.6 V		0	—	80.0	μA
Quiescent supply current	I _{CC}	V _{IN} = V _{CC} or GND		3.6	_	80.0	μA

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9.4. 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 ΜΩ	0.9	10	_	20.7	_	ns
			See Fig. 9.7.1, Table 9.7.1	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	1		2.3	3.1		
Propagation delay time	t _{PLH} ,t _{PHL}		R _L = 1 ΜΩ	0.9	15	_	22.9	_	ns
		See Fig. 9.7.1, Table 9.7.1	See Fig. 9.7.1,	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	1	_	2.5	3.4	
Propagation delay time	t _{PLH} ,t _{PHL}		R _L = 1 MΩ	0.9	30	_	30.6	_	ns
			See Fig. 9.7.1, Table 9.7.1	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	1	_	3.3	4.4	
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.

 $I_{CC(opr)} = C_{PD} \cdot V_{CC} \cdot f_{IN} + I_{CC}$

9.5. 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 ΜΩ	0.9	10	_	_	ns
		See Fig. 9.7.1, Table 9.7.1	1.1 to 1.3	1	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	1.0	4.4	
			3.0 to 3.6		1.0	3.7	
Propagation delay time	$\begin{array}{c} t_{\text{PLH}}, t_{\text{PHL}} & \text{R}_{\text{L}} = 1 \ \text{M}\Omega \\ \text{See Fig. 9.7.1}, \\ \text{Table 9.7.1} \end{array}$		0.9	15	_	_	ns
			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	
Propagation delay time	t _{PLH} ,t _{PHL}	R _L = 1 MΩ	0.9	30	_	—	ns
		See Fig. 9.7.1, Table 9.7.1	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	

9.6. AC Characteristics (Unless otherwise specified, $T_a = -40$ to 125 °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 ΜΩ	0.9	10	_	_	ns
		See Fig. 9.7.1, Table 9.7.1	1.1 to 1.3		1.0	44.8	
			1.4 to 1.6		1.0	11.0	
			1.65 to 1.95		1.0	7.1	
		2.3 to 2.7		1.0	4.8		
			3.0 to 3.6		1.0	4.1	
Propagation delay time	$t_{\text{PLH}}, t_{\text{PHL}} R_{\text{L}} = 1 \text{ M}\Omega$ See Fig. 9.7.1, Table 9.7.1		0.9	15	_	—	ns
			1.1 to 1.3		1.0	47.7	
			1.4 to 1.6		1.0	12.5	
			1.65 1.95		1.0	7.6	
			2.3 to 2.7		1.0	5.4	
			3.0 to 3.6		1.0	4.3	
Propagation delay time	t _{PLH} ,t _{PHL}	R _L = 1 MΩ	0.9	30	_	—	ns
		See Fig. 9.7.1, Table 9.7.1	1.1 to 1.3		1.0	73.6	
			1.4 to 1.6		1.0	17.8	
			1.65 to 1.95		1.0	10.2	
			2.3 to 2.7		1.0	6.6	
			3.0 to 3.6		1.0	5.2	

9.7. AC Waveform

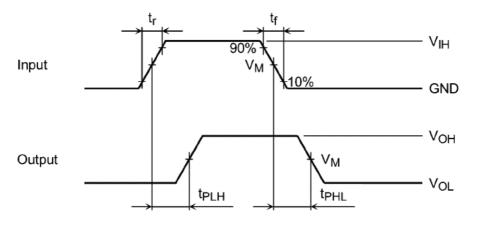


Fig. 9.7.1 t_{PLH}, t_{PHL}

Table 9.7.1	AC Waveform	Symbols
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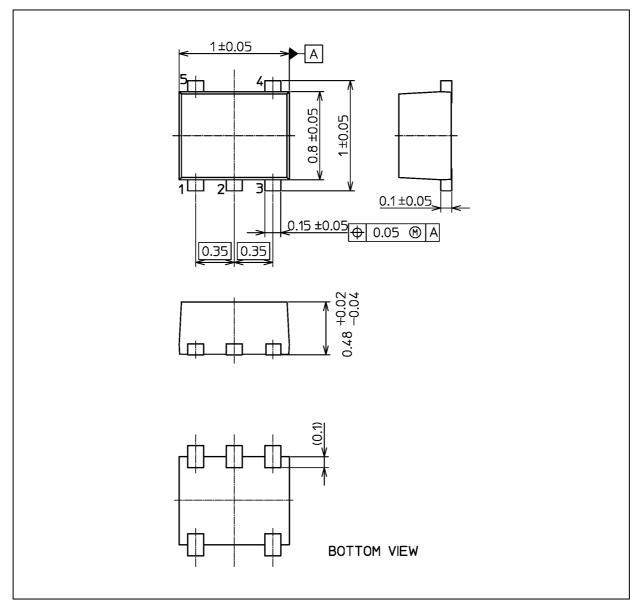
					-		
	Symbol	$\begin{array}{c} V_{CC} \texttt{=} 3.3 \\ \pm 0.3 \ V \end{array}$	V_{CC} = 2.5 ± 0.2 V	V _{CC} = 1.8 ± 0.15 V	V _{CC} = 1.5 ± 0.1 V	V _{CC} = 1.2 ± 0.1 V	V _{CC} = 0.9 V
Input	V _{IH}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}	V _{CC}
	V _M	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2
Output	V _M	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2	V _{CC} /2

7UL1G08FS,RF(B Toshiba Semiconductor and Storage L-MOS LVP IC VCC: 2.3V-3.6V, SOT

7UL1G08FS

Package Dimensions

Unit: mm



Weight: 1.0 mg (typ.)

Package Name(s)

Nickname: fSV

7UL1G08FS

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