



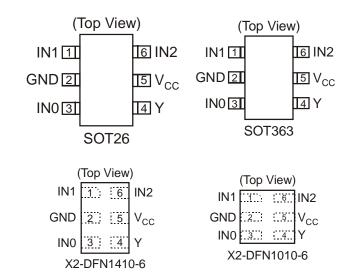


#### CONFIGURABLE MULTIPLE-FUNCTION GATE

#### **Description**

The 74LVC1G97 is a single three-input positive configurable multiple-function gate with a standard push-pull output. The output state is determined by eight patterns of three-bit input. The user can choose the logic functions MUX, AND, OR, NAND, NOR, inverter or non-inverting buffer. All inputs can be connected to ground or Vcc as required. The device is designed for operation with a power supply range of 1.65V to 5.5V. The inputs are tolerant to 5.5V allowing this device to be used in a mixed voltage environment. The device is fully specified for partial power-down applications using IOFF. The IOFF circuitry disables the output to prevent damaging current backflow when the device is powered down. The user is reminded that the device can simulate several types of logic gates but may respond differently due to the Schmitt action at the inputs.

### **Pin Assignments**



#### **Features**

- Wide Supply Voltage Range from 1.65V to 5.5V
- ±24mA Output Drive at 3.3V
- CMOS Low Power Consumption
- IOFF Supports Partial-Power-Down Mode Operation
- Inputs Accept up to 5.5V
- ESD Protection Exceeds JESD 22
  - 200V Machine Model (A115-A)
  - 2000V Human Body Model (A114-A)
- Latchup Exceeds 100mA per JESD 78, Class II
- Range of Package Options
- SOT26, SOT363, X2-DFN1410-6, and X2-DFN1010-6: Available in "Green" Molding Compound (no Br, Sb)
- Totally Lead-Free & Fully RoHS Compliant (Notes 1 & 2)
- Halogen and Antimony Free. "Green" Device (Note 3)
- For automotive applications requiring specific change control (i.e. parts qualified to AEC-Q100/101/104/200, PPAP capable, and manufactured in IATF 16949 certified facilities), please <u>contact us</u> or your local Diodes representative. <a href="https://www.diodes.com/quality/product-definitions/">https://www.diodes.com/quality/product-definitions/</a>

#### **Applications**

- Voltage level shifting
- General-purpose logics
- Power-down signal isolation
- Wide array of products such as:
  - PCs, networking, notebooks, netbooks, PDAs
  - Computer peripherals, hard drives, CD/DVD ROM
  - TVs, DVDs, DVRs, set-top boxes
  - Cell phones, personal navigation/GPS
  - MP3 players, cameras, video recorders

Notes:

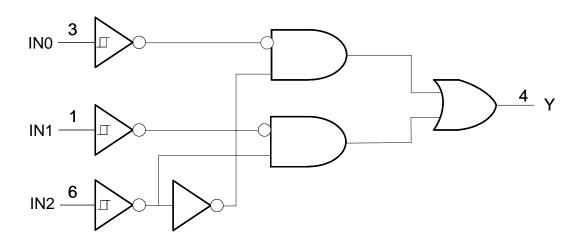
- 1. No purposely added lead. Fully EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant.
- 2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.
- 3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony compounds.



# **Pin Descriptions**

Pin Number	Pin Name	Description
1	IN1	Data Input
2	GND	Ground
3	IN0	Data Input
4	Y	Data Output
5	Vcc	Supply Voltage
6	IN2	Data Input

# **Logic Diagram**

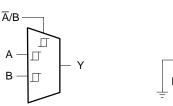


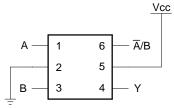
## **Function Table**

	Inputs							
IN2	IN1	IN0	Υ					
L	L	L	L					
L	L	Н	L					
L	Н	L	Н					
L	Н	Н	Н					
Н	L	L	L					
Н	L	Н	Н					
Н	Н	L	L					
Н	Н	Н	Н					

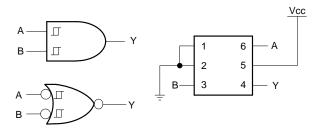


# **Logic Configurations**

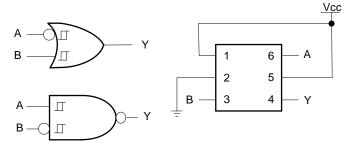




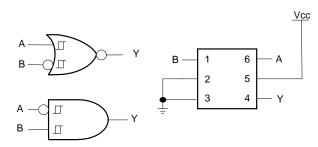
Configuration 1 2 to 1 Data Selector



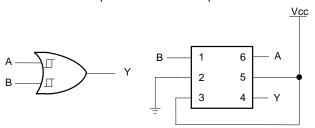
Configuration 2
2-Input AND Gate
2-Input NOR Gate with Both Inputs Inverted



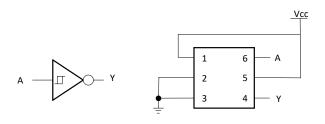
Configuration 3
2-Input NAND Gate with B Input Inverted
2-Input OR Gate with A Input Inverted



Configuration 4
2-Input NOR Gate with One Input Inverted
2-Input AND Gate with One Input Inverted



Configuration 5 2-Input OR Gate



Configuration 6 Inverter

Function Selection Table							
Logic Function	Configuration						
2-to-1 Data Selector	1						
2-Input AND GATE	2						
2-Input AND with Inverted Input	3, 4						
2-Input NOR with Inverted Input	3, 4						
2-Input OR	5						
2-Input NOR with Both Inputs Inverted	2						
1-Input Inverter	6						



## Absolute Maximum Ratings (Notes 4, 5)

Symbol	Description	Rating	Unit
ESD HBM	Human Body Model ESD Protection	2	kV
ESD MM	Machine Model ESD Protection	200	V
Vcc	Supply Voltage Range	-0.5 to 6.5	V
Vı	Input Voltage Range	-0.5 to 6.5	V
Vo	Voltage applied to output in high impedance or Ioff state	-0.5 to 6.5	V
Vo	Voltage applied to output in high or low state	-0.3 to Vcc +0.5	V
lıĸ	Input Clamp Current V <sub>I</sub> < 0	-50	mA
lok	Output Clamp Current	-50	mA
lo	Continuous Output Current	±50	mA
_	Continuous Current Through Vdd or GND	±100	mA
TJ	Operating Junction Temperature	-40 to +150	°C
T <sub>STG</sub>	Storage Temperature	-65 to +150	°C

Notes:

## **Recommended Operating Conditions (Note 6)**

Symbol	Param	eter	Min	Max	Unit
\/	Operating Valters	Operating	1.65	5.5	V
Vcc	Operating Voltage	Data retention only	1.5	_	V
Vı	Input Voltage	·	0	5.5	V
Vo	Output Voltage		0	Vcc	V
		Vcc = 1.65V	_	-4	
	High-Level Output Current	Vcc = 2.3V	_	-8	mA
Іон		Vac 2V	_	-16	
		Vcc = 3V	_	-24	
		Vcc = 4.5V	_	-32	
		Vcc = 1.65V	_	4	
		V <sub>CC</sub> = 2.3V	_	8	
loL	Low-Level Output Current		_	16	mA
		Vcc = 3V	_	24	
		V <sub>CC</sub> = 4.5V		32	
T <sub>A</sub>	Operating Free-Air Temperature	_	-40	+125	°C

Note: 6. Unused inputs should be held at  $V_{\mbox{\footnotesize CC}}$  or Ground.

Stresses greater than those listed under *Absolute Maximum Ratings* can cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated under *Recommended Operating Conditions* is not implied. Exposure to *Absolute Maximum Ratings* for extended periods can affect device reliability.
 The input and output negative-voltage ratings may be exceeded if the input and output current ratings are observed.



# Electrical Characteristics (@TA = -40°C to +85°C. All typical values are at Vcc = 3.3V, TA = +25°C)

Symbol	Parameter	Test Conditions	Vcc	Min	Тур	Max	Unit
		_	1.65V	0.70	_	1.20	
		_	2.3V	1.11	_	1.60	
V <sub>T+</sub>	Positive-Going Input Threshold Voltage	_	3V	1.50	_	2.00	V
	Tribonola Vollage	_	4.5V	2.16	_	2.74	
		_	5.5V	2.61	_	3.33	
		_	1.65V	0.30	_	0.72	
		_	2.3V	0.58	_	1.00	
$V_{T-}$	Negative-Going Input Threshold Voltage	_	3V	0.80	_	1.30	V
	Timoshola Tollago	_	4.5V	1.21	_	1.95	
		_	5.5V	1.45	_	2.35	
		_	1.65V	0.30	_	0.62	
		_	2.3V	0.40	_	0.80	٧
ΔVτ	Hysteresis (VT+ - VT-)	_	3V	0.35	_	1.00	
		_	4.5V	0.55	_	1.10	
		_	5.5V	0.60	_	1.20	
		Іон = -100μΑ	1.65V to 5.5V	Vcc - 0.1	_	_	
		IoH = -4mA	1.65V	1.2	_	_	
.,		Iон = -8mA	2.3V	1.9	_	_	V
V <sub>OH</sub>	High-Level Output Voltage	Iон = -16mA	0)/	2.4	_	_	V
		Iон = -24mA	- 3V	2.3	_	_	
		Iон = -32mA	4.5V	3.8	_	_	
		I <sub>OL</sub> = 100μA	1.65V to 5.5V	_	_	0.1	
		I <sub>OL</sub> = 4mA	1.65V	_	_	0.45	
.,	IPak Lavalland Vallana	I <sub>OL</sub> = 8mA	2.3V	_	_	0.3	.,
VoL	High-Level Input Voltage	I <sub>OL</sub> = 16mA	0)/	_	_	0.4	V
		I <sub>OL</sub> = 24mA	- 3V	_	_	0.55	
		I <sub>OL</sub> = 32mA	4.5V	_	_	0.55	
lı	Input Current	V <sub>I</sub> = 5.5V or GND	0 to 5.5V	_	_	±1	μΑ
loff	Power-Down Leakage Current	V <sub>I</sub> or V <sub>O</sub> = 5.5V	0	_	_	±2	μΑ
Icc	Supply Current	V <sub>I</sub> = 5.5V of GND I <sub>O</sub> = 0	1.65V to 5.5V	_	_	4	μΑ
Δlcc	Additional Supply Current	One input at Vcc – 0.6V Other inputs at Vcc or GND	3V to 5.5V	_	_	500	μA



# $\textbf{Electrical Characteristics} \ (@TA = -40 ^{\circ}C \ to \ +125 ^{\circ}C. \ All \ typical \ values \ are \ at \ V_{CC} = 3.3 V, \ TA = +25 ^{\circ}C)$

Symbol	Parameter	Test Conditions	Vcc	Min	Тур	Max	Unit
		_	1.65V	0.70	_	1.20	
		_	2.3V	1.11	_	1.60	
V <sub>T+</sub>	Positive-Going Input Threshold Voltage	_	3V	1.50	_	2.00	V
	Threshold Vollage	_	4.5V	2.16	_	2.74	
		_	5.5V	2.61	_	3.33	
		_	1.65V	0.30	_	0.75	
		_	2.3V	0.58	_	1.03	
V <sub>T</sub> -	Negative-Going Input Threshold Voltage	_	3V	0.80	_	1.33	V
	Timeenela vellage	_	4.5V	1.21	_	1.95	
		_	5.5V	1.45	_	2.35	
		_	1.65V	0.30	_	0.62	
	$\Delta V_T$ Hysteresis $(V_{T+} - V_{T-})$	_	2.3V	0.37	_	0.80	
ΔVτ		_	3V	0.32	_	1.00	V
		_	4.5V	0.50	_	1.20	
		_	5.5V	0.55	_	1.40	
		Іон = -100μΑ	1.65V to 5.5V	Vcc -0.1	_	_	
		Iон = -4mA	1.65V	0.95	_	_	
.,,	High Lavel Output Valtage	Іон = -8mA	2.3V	1.7	_	_	V
V <sub>OH</sub>	High-Level Output Voltage	Iон = -16mA	2) /	1.9	_	_	v
		Iон = -24mA	3V	2.0	_	_	
		Iон = -32mA	4.5V	3.4	_	_	
		I <sub>OL</sub> = 100μA	1.65V to 5.5V	_	_	0.1	
		I <sub>OL</sub> = 4mA	1.65V	_	_	0.7	
.,	Liber Level leavet Veltere	I <sub>OL</sub> = 8mA	2.3V	_	_	0.45	V
Vol	High-Level Input Voltage	I <sub>OL</sub> = 16mA	3V	_	_	0.6	V
		I <sub>OL</sub> = 24mA	30	_	_	0.8	
		I <sub>OL</sub> = 32mA	4.5V	_	_	0.8	
lı	Input Current	V <sub>I</sub> = 5.5V or GND	0 to 5.5V	_	_	±1	μA
loff	Power-Down Leakage Current	V <sub>I</sub> or V <sub>O</sub> = 5.5V	0	_	_	±2	μA
Icc	Supply Current	V <sub>I</sub> = 5.5V of GND I <sub>O</sub> = 0	1.65V to 5.5V	_	_	4	μΑ
ΔI <sub>CC</sub>	Additional Supply Current	One input at Vcc - 0.6V Other inputs at Vcc or GND	3V to 5.5V	_	_	500	μΑ



## Package Characteristics (All typical values are at Vcc = 3.3V, TA = +25°C)

Symbol	Parameter	Test Conditions	Vcc	Min	Тур	Max	Unit
Cı	Input Capacitance	$V_I = V_{CC} - or GND$	3.3	_	3.5	_	pF
		SOT26		_	204	_	
0	Thermal Resistance Junction-	SOT363	(Note 7)	_	371	_	°C/W
θ <sub>JA</sub>	to-Ambient	X2-DFN1410-6		_	430	_	C/VV
		X2-DFN1010-6		_	510	_	
		SOT26	(Note 7)	_	52	_	
	Thermal Resistance Junction-	SOT363		_	143	_	°C/W
θιс	to-Case	X2-DFN1410-6		_	190	_	C/VV
		X2-DFN1010-6		_	250	_	

Note:

### **Switching Characteristics**

 $T_A = -40$ °C to +85°C,  $C_L = 30$  or 50pF as noted (See Figure 1)

Parameter	From	To		= 1.8V .15V		= 2.5V ).2V		= 3.3V ).3V		= 5V ).5V	Unit
	(Input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
t <sub>pd</sub>	Any	Υ	1.0	14.4	0.7	8.3	0.7	6.3	0.7	5.1	ns

 $T_A = -40$ °C to +125°C,  $C_L = 30$  or 50pF as noted (See Figure 1)

Parameter From		To		: 1.8V .15V		: 2.5V ).2V		: 3.3V ).3V	Vcc ± 0	= 5V .5V	Unit
	(Input)	(Output)	Min	Max	Min	Max	Min	Max	Min	Max	
t <sub>pd</sub>	Any	Y	1.0	18.0	0.7	10.4	0.7	7.9	0.7	6.4	ns

## **Operating Characteristics**

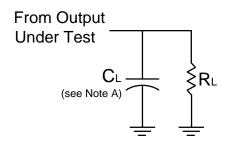
 $T_A = +25$ °C

Parameter		Test			V <sub>CC</sub> = 3.3V	V <sub>CC</sub> = 5V	Unit
	raiameter	Conditions	Тур	Тур	Тур	Тур	Oille
C <sub>pd</sub>	Power Dissipation Capacitance	f = 10MHz	22	22	23	24	pF

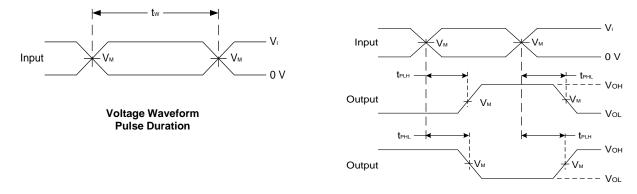
<sup>7.</sup> Test condition for SOT26, SOT363, X2-DFN1410-6 and X2-DFN1010-6: device mounted on FR-4 substrate PC board, 2oz copper, with minimum recommended pad layout.



### **Parameter Measurement Information**



Vcc	Inp	uts	V <sub>M</sub>	C.	RL
V CC	$V_1$ $t_r/t_f$	V M	CL	NL	
1.8V ± 0.15V	Vcc	≤ 2ns	V <sub>CC</sub> / 2	30pF	1kΩ
2.5V ± 0.2V	Vcc	≤ 2ns	V <sub>CC</sub> / 2	30pF	500Ω
3.3V ± 0.3V	3V	≤ 2.5ns	1.5V	50pF	500Ω
5V ± 0.5V	Vcc	≤ 2.5ns	Vcc / 2	50pF	500Ω



Voltage Waveform Propagation Delay Times **Inverting and Non-Inverting Outputs** 

Figure 1. Load Circuit and Voltage Waveforms

Notes:

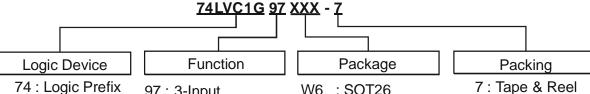
- A. Includes test lead and test apparatus capacitance.

  B. All pulses are supplied at pulse repetition rate ≤ 10MHz.

  C. Inputs are measured separately one transition per measurement.
- D.  $t_{PLH}$  and  $t_{PHL}$  are the same as  $t_{PD}$ .



### Ordering Information (Note 8)



LVC : 1.65 to 5.5V

Family 1G : One gate

97 : 3-Input Configurable

Multiple-Function
Gate

W6 : SOT26 DW : SOT363

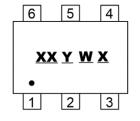
FW4: X2-DFN1010-6 FZ4: X2-DFN1410-6

Bort Number Bort Number Cuffin Books Code	Doolsono	Packing			
Part Number	Part Number Suffix	Package Code	Package	Qty.	Carrier
74LVC1G97W6-7	-7	W6	SOT26	3,000	7" Tape and Reel
74LVC1G97DW-7	-7	DW	SOT363	3,000	7" Tape and Reel
74LVC1G97FW4-7	-7	FW4	X2-DFN1010-6	5,000	7" Tape and Reel
74LVC1G97FZ4-7	-7	FZ4	X2-DFN1410-6	5,000	7" Tape and Reel

Note: 8. For packaging details, go to our website at https://www.diodes.com/design/support/packaging/diodes-packaging/.

### **Marking Information**

#### (1) SOT26, SOT363



 $\begin{array}{l} \underline{XX}\text{: Identification Code} \\ \underline{Y}\text{: Year 0 to 9 (ex: 4 = 2024)} \\ \underline{W}\text{: Week: A to Z: Week 1 to 26} \\ \text{a to z: Week 27 to 52; z Represents} \end{array}$ 

Week 52 and 53 X: A to Z: Internal Code

Part Number	Package	Identification Code
74LVC1G97W6-7	SOT26	TY
74LVC1G97DW-7	SOT363	TY

#### (2) X2-DFN1010-6, X2-DFN1410-6

#### (Top View)



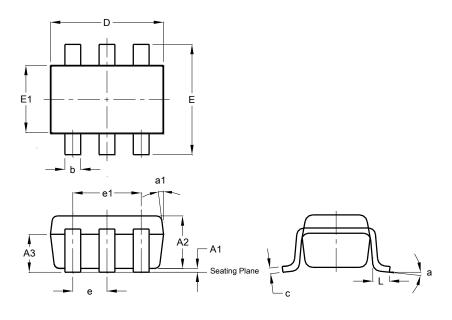
Part Number	Package	Identification Code
74LVC1G97FW4-7	X2-DFN1010-6	TY
74LVC1G97FZ4-7	X2-DFN1410-6	TY



# Package Outline Dimensions

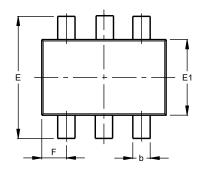
Please see http://www.diodes.com/package-outlines.html for the latest version.

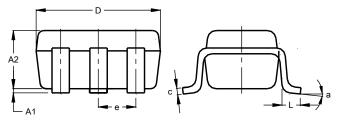
#### SOT26



SOT26				
Dim	Min	Max	Тур	
A1	0.013	0.10	0.05	
A2	1.00	1.30	1.10	
A3	0.70	0.80	0.75	
b	0.35	0.50	0.38	
С	0.10	0.20	0.15	
D	2.90	3.10	3.00	
е	-	-	0.95	
e1	-	-	1.90	
E	2.70	3.00	2.80	
E1	1.50	1.70	1.60	
L	0.35	0.55	0.40	
а	-	-	8°	
a1	-	-	7°	
All	All Dimensions in mm			

#### **SOT363**



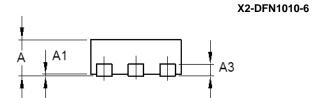


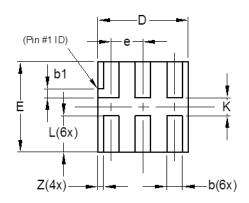
SOT363				
Dim	Min	Max	Тур	
A1	0.00	0.10	0.05	
A2	0.90	1.00	0.95	
b	0.10	0.30	0.25	
С	0.10	0.22	0.11	
D	1.80	2.20	2.15	
Е	2.00	2.20	2.10	
E1	1.15	1.35	1.30	
е	0.650 BSC			
F	0.40	0.45	0.425	
L	0.25	0.40	0.30	
а	0°	8°		
All Dimensions in mm				



# Package Outline Dimensions (continued)

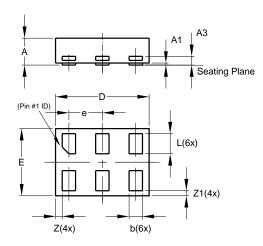
Please see http://www.diodes.com/package-outlines.html for the latest version.





X2-DFN1010-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
<b>A</b> 1	0.00	0.05	0.02	
A3	_	_	0.13	
b	0.14	0.20	0.17	
b1	0.05	0.15	0.10	
D	0.95	1.05	1.00	
E	0.95	1.05	1.00	
е	_	_	0.35	
L	0.35	0.45	0.40	
K	0.15	_	_	
Z	_	_	0.065	
All Dimensions in mm				

#### X2-DFN1410-6



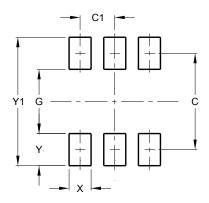
X2-DFN1410-6				
Dim	Min	Max	Тур	
Α	_	0.40	0.39	
A1	0.00	0.05	0.02	
А3	_	_	0.13	
b	0.15	0.25	0.20	
D	1.35	1.45	1.40	
Е	0.95	1.05	1.00	
е			0.50	
٦	0.25	0.35	0.30	
Z			0.10	
Z1	0.045	0.105	0.075	
All Dimensions in mm				



# Suggested Pad Layout (Note 9)

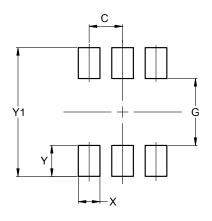
Please see http://www.diodes.com/package-outlines.html for the latest version.

#### SOT26



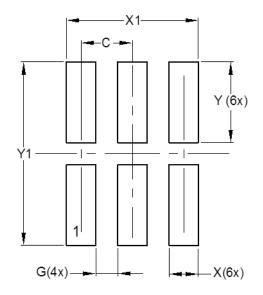
Dimensions	Value (in mm)
С	2.40
C1	0.95
G	1.60
Х	0.55
Y	0.80
Y1	3.20

#### **SOT363**



Dimensions	Value (in mm)
С	0.650
G	1.300
Х	0.420
Y	0.600
V1	2 500

#### X2-DFN1010-6



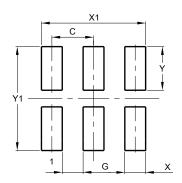
Dimensions	Value (in mm)
С	0.350
G	0.150
Х	0.200
X1	0.900
Y	0.550
Y1	1.250



### Suggested Pad Layout (Note 9) (continued)

Please see http://www.diodes.com/package-outlines.html for the latest version.

#### X2-DFN1410-6



Dimensions	Value (in mm)
С	0.500
G	0.250
Х	0.250
X1	1.250
Y	0.525
Y1	1.250

Note: 9. The suggested land pattern dimensions have been provided for reference only, as actual pad layouts may vary depending on application. These dimensions may be modified based on user equipment capability or fabrication criteria. A more robust pattern may be desired for wave soldering and is calculated by adding 0.2 mm to the 'Z' dimension. For further information, please reference document IPC-7351A, Naming Convention for Standard SMT Land Patterns, and for International grid details, please see document IEC, Publication 97.

#### **Mechanical Data**

- Moisture Sensitivity: Level 1 per J-STD-020
- Terminals: Finish Matte Tin Plated Leads, Solderable per MIL-STD-202, Method 208 @3
- Weight:
  - SOT26: 0.016 grams (Approximate)
  - SOT363: 0.006 grams (Approximate)
  - X2-DFN1010-6: 0.00118 grams (Approximate)
  - X2-DFN1410-6: 0.002 grams (Approximate)

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