ELECTRICAL SPECIFICATIONS

ABSOLUTE MAXIMUM RATINGS

PARAMETERS	SYMBOL	MIN.	MAX.	UNITS
Supply Voltage Range	V_{DD}	-0.5	4.6	V
Input Voltage Range	V_I	-0.5	$V_{DD}+0.5$	V
Output Voltage Range	V_O	-0.5	$V_{DD}+0.5$	V
Soldering Temperature (Green package)			260	°C
Storage Temperature	T_S	-65	150	°C
Ambient Operating Temperature*		-40	85	°C

Exposure of the device under conditions beyond the limits specified by Maximum Ratings for extended periods may cause permanent damage to the device and affect product reliability. These conditions represent a stress rating only, and functional operations of the device at these or any other conditions above the operational limits noted in this specification is not implied. *Operating temperature is guaranteed by design. Parts are tested to commercial grade only.

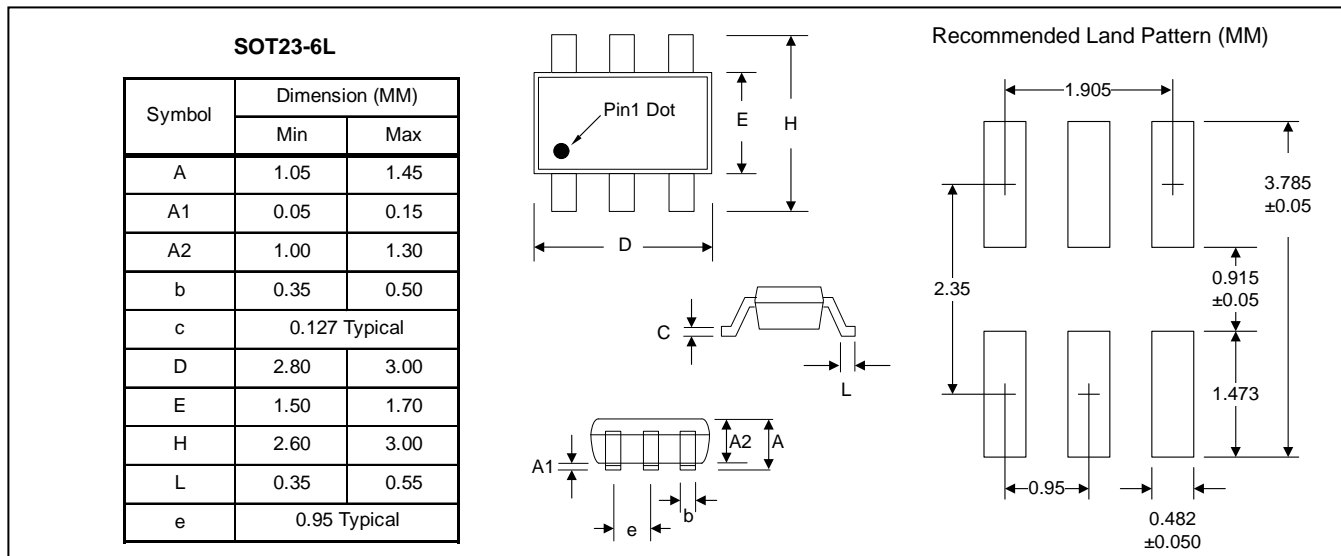## GENERAL ELECTRICAL SPECIFICATIONS

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Supply Current, Dynamic	I_{DD}	Load=15pF			20	mA
Operating Voltage	V_{DD}		2.97		3.63	V
Output Low Voltage	V_{OL}	I_{OL} = +4mA			0.4	V
Output High Voltage	V_{OH}	I_{OH} = -4mA	$V_{DD} - 0.4$			V
Output Current	I_{OSD}	V_{OL} = 0.4V, V_{OH} = 2.4V	10			mA
Settling Time		At power-up ($V_{DD} > 2.97V$)			2	ms
Output Rise Time	t_r	15pF Load, 10/90%V_{DD}		2.5	3.5	ns
Output Fall Time	t_f	15pF Load, 90/10%V_{DD}		2.5	3.5	ns
Duty Cycle		At V_{DD}/2	45	50	55	%

CRYSTAL SPECIFICATIONS

PARAMETERS	SYMBOL	MIN.	TYP.	MAX.	UNITS
Fundamental Crystal Resonator Frequency	F_{XIN}		27		MHz
Crystal Loading Rating	$C_{L (xtal)}$		18		pF
Maximum Sustainable Drive Level				500	μW
Operating Drive Level			100		μW
Crystal Shunt Capacitance	C0			6	pF
Effective Series Resistance, Fundamental	ESR			30	Ω

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PACKAGE DRAWING (GREEN PACKAGE COMPLIANT)

SOT23-6L

Symbol	Dimension (MM)	
	Min	Max
A	1.05	1.45
A1	0.05	0.15
A2	1.00	1.30
b	0.35	0.50
c	0.127 Typical	
D	2.80	3.00
E	1.50	1.70
H	2.60	3.00
L	0.35	0.55
e	0.95 Typical	

Pin1 Dot

Recommended Land Pattern (MM)

1.905
3.785 ±0.05
2.35
0.915 ±0.05
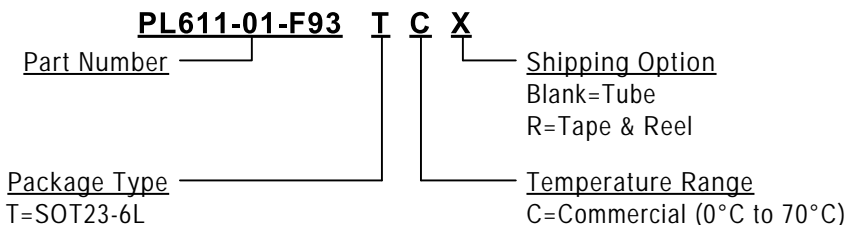1.473
0.95
0.482 ±0.050

ORDERING INFORMATION (GREEN PACKAGE COMPLIANT)

For part ordering, please contact our Sales Department:
47745 Fremont Blvd., Fremont, CA 94538, USA
Tel: (510) 492-0990 Fax: (510) 492-0991

PART NUMBER
The order number for this device is a combination of the following:
Part number, Package type and Operating temperature range

PL611-01-F93 T C X

Part Number

Shipping Option
Blank=Tube
R=Tape & Reel

Package Type
T=SOT23-6L

Temperature Range
C=Commercial (0°C to 70°C)

Part / Order Number	Marking*	Package Option
PL611-01-F93TC-R	C1F93 LLL	6-Pin SOT-23 (Tape and Reel)

*Note: LLL represents the production lot number

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