

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.

AC SPECIFICATIONS

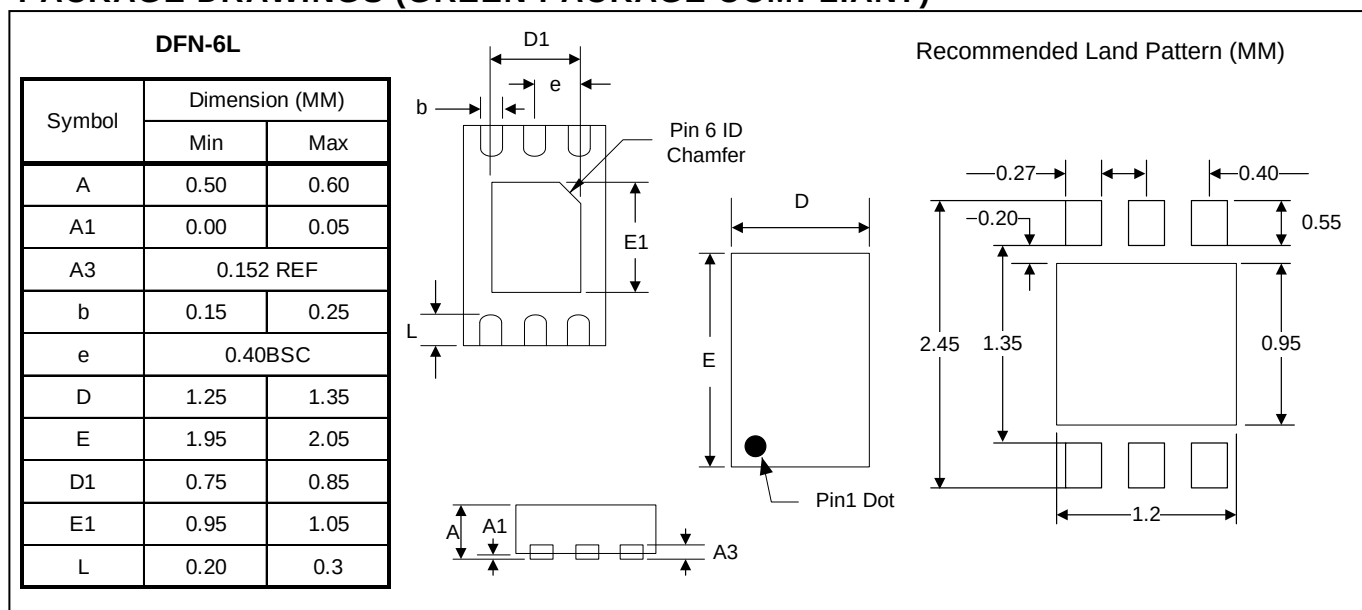
PARAMETERS	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Frequency ^[1]	@ V_{DD} = 3.3V, 15pF Load	DC		200	MHz
	@ V_{DD} = 2.5V, 15pF Load			150	
	@ V_{DD} = 1.8V, 15pF Load			100	
Input Voltage Low				$0.3 \times V_{DD}$	V
Input Voltage High		$0.7 \times V_{DD}$			V
Output Enable Time	$T_a = 25^\circ \text{C}$, 15pF Load			2	ms
Output Rise Time	15pF Load, 10/90% V_{DD} , 3.3V		2.0	3.0	ns
Output Fall Time	15pF Load, 90/10% V_{DD} , 3.3V		2.0	3.0	ns
Duty Cycle	Dependant upon input duty cycle				%

Notes: [1] Higher frequencies may be achieved for lower capacitive loads.

DC SPECIFICATIONS

PARAMETERS	SYMBOL	CONDITIONS	MIN.	TYP.	MAX.	UNITS
Supply Current, Dynamic, with Loaded CMOS Output	I_{DD}	@ $V_{DD} = 3.3V$, 32kHz, load=15pF		0.8		mA
Supply Current, Dynamic, with Loaded CMOS Output	I_{DD}	@ $V_{DD} = 2.5V$, 32KHz, load=15pF		0.6		mA
Supply Current, Dynamic, with Loaded CMOS Output	I_{DD}	@ $V_{DD} = 1.8V$, 32kHz, load=15pF		0.4		mA
Supply Current, Dynamic, with Loaded Outputs	I_{DD}	When OE=0			5	μA
Operating Voltage	V_{DD}		1.62		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}	$V_{OL} = 0.4V$, $V_{OH} = 2.4V$	8			mA

PACKAGE DRAWINGS (GREEN PACKAGE COMPLIANT)



ORDERING INFORMATION (GREEN PACKAGE COMPLIANT)

For part ordering, please contact our Sales Department:

2180 Fortune Drive, San Jose, CA 95131, USA

Tel: (408) 944-0800 Fax: (408) 474-1000

PART NUMBER

The order number for this device is a combination of the following:

Part number, Package type and Operating temperature range

PL123-02N G C - R

PART NUMBER

PACKAGE TYPE

G=DFN-6L

R=TAPE and REEL

TEMPERATURE

C=COMMERCIAL

I = INDUSTRIAL

Part /Order Number	Marking*	Package Option
PL123-02NGC-R	02N LLL	6-Pin DFN (Tape and Reel)
PL123-02NGI-R	02N LLL	6-Pin DFN (Tape and Reel)

*Note: LLL designates lot number

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