



LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

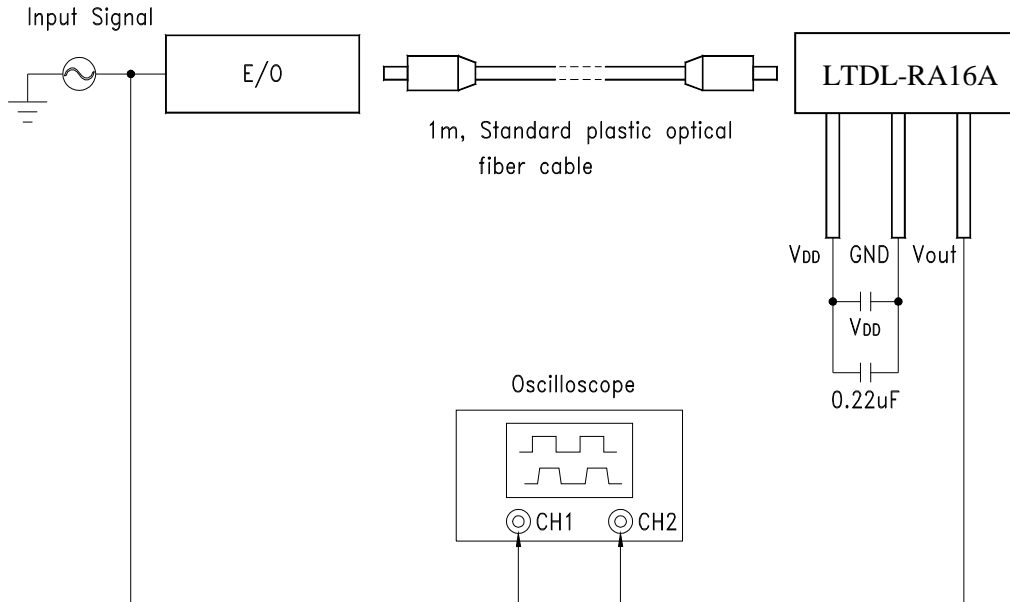
ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V _{DD})	5.25	V
Output Voltage (V _O)	V _{DD} +0.3	V
Operating Temperature Range	-20°C to + 70°C	
Storage Temperature Range	-30°C to + 70°C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C ≤ 5 Seconds	

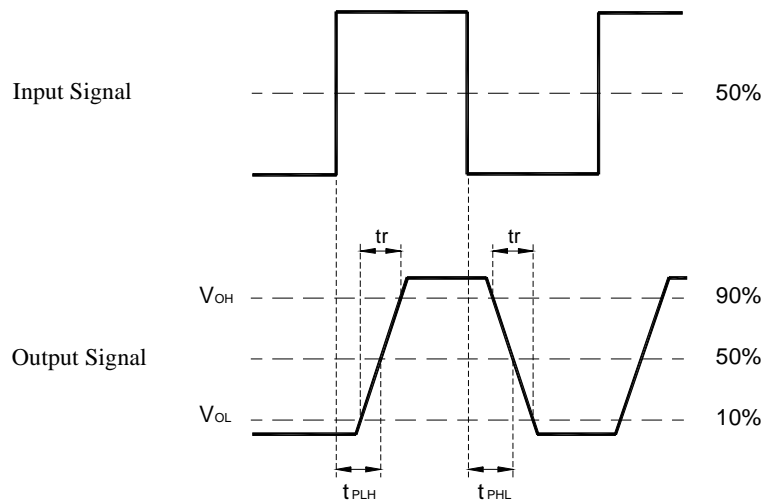
ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Data Rate	T _s	100 K	-	16	Mbps	NRZ signal
Operating Voltage	V _{DD}	2.75	-	5.25	V	
Peak Emission Wavelength	λ _{Peak}	630	650	670	nm	
Input Sensitivity	P _i	-27	-	-14	dBm	
Dissipation current	I _{DD}	-	-	10	mA	
High level output voltage	V _{OH}	2.1	2.5	-	V	Dc Light , I _{OH} = -20 μA
Low level output voltage	V _{OL}	-	0.2	0.4	V	Dark , V _{OL} = 0.6mA
“Low→High”propagation delay time	t _{PLH}	-	-	120	ns	*1
“High→Low”propagation delay time	t _{PHL}	-	-	120	ns	
Pulse width distortion	Δt _w	-25		+25	ns	
Jitter	Δt _j	-	-	10	ns	*2
Rise Time	t _r	-	10	20	ns	*1
Fall Time	t _f	-	10	20	ns	*1

Setup of Measuring System



***1 Rise and Fall Time and Propagation Delays**



$$\text{Pulse width Distortion} = \Delta tw = \frac{t_{PHL} - t_{PLH}}{2}$$

***2 Jitter**