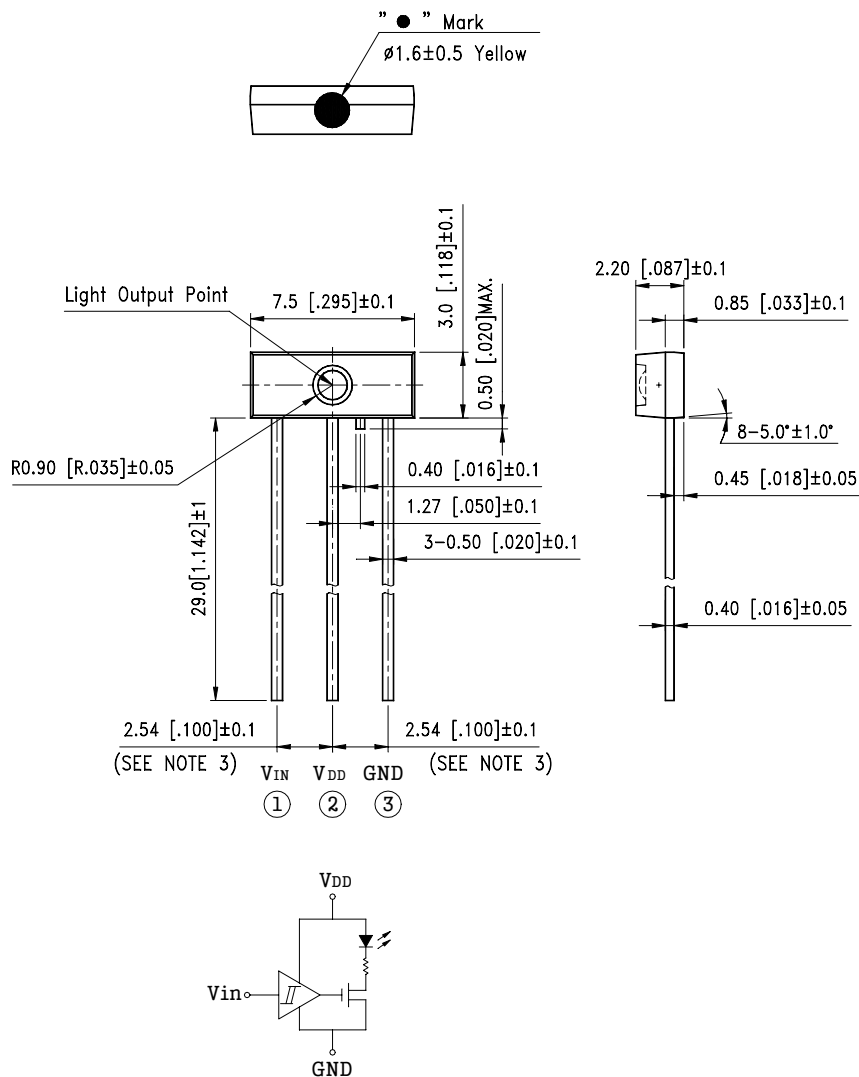


FEATURES

- * TTL INTERFACE COMPATIBLE
- * HIGH SPEED OPTIC SIGNAL TRANSMISSION
- * BUILT-IN LED DRIVER
- * BUILT-IN CURRENT LIMIT RESISTOR
- * LOW POWER CONSUMPTION

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.15\text{mm}$ (.006") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.



LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

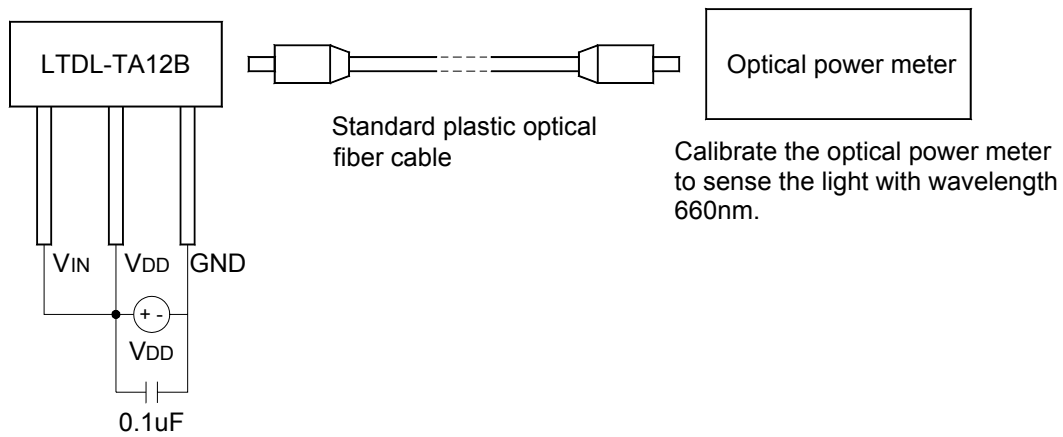
ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V _{DD})	-0.5 ~ +7	V
Input Voltage (V _{IN})	-0.5 ~ V _{DD} +0.5	V
Operating Temperature Range	-20 °C to + 70 °C	
Storage Temperature Range	-30 °C to + 80 °C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

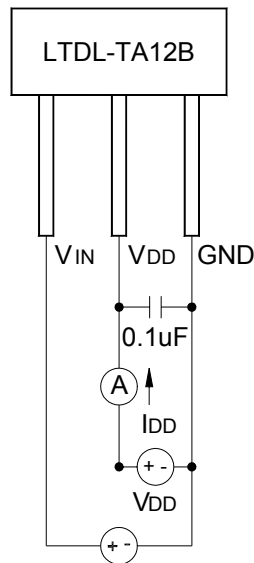
ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Transmission Speed	T _s	—	—	13.2	Mbps	NRZ signal
Operating Voltage	V _{DD}	2.75	—	5.25	V	
Peak Emission Wavelength	λ_{Peak}	630	650	690	nm	
Fiber coupling light output	P _c	-21	-17	-15	dBm	*1
Dissipation current	I _{DD}	—	6	8	mA	*2
High level input voltage	V _{IH}	2	—	—	V	
Low level input voltage	V _{IL}	—	—	0.8	V	
“Low→High”propagation delay time	t _{PLH}	—	—	166	ns	*3
“High→Low”propagation delay time	t _{PHL}	—	—	155	ns	
Pulse width distortion	Δt_w	-18	—	+18	ns	
Viewing Angle (See FIG.2)	2 $\theta_{1/2}$	—	90	—	deg.	
Jitter	Δt_j	—	1	18	ns	

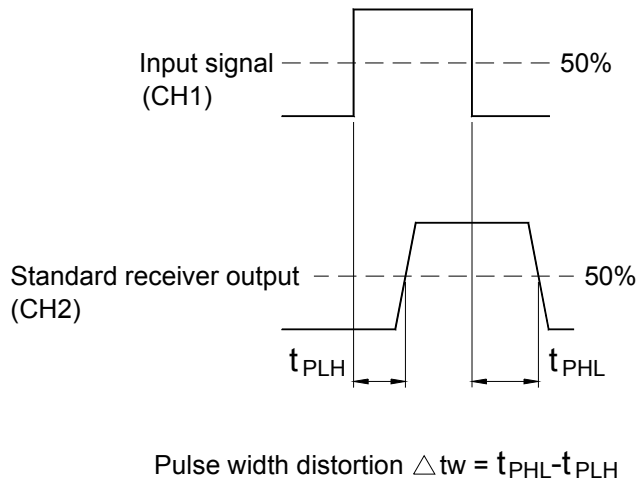
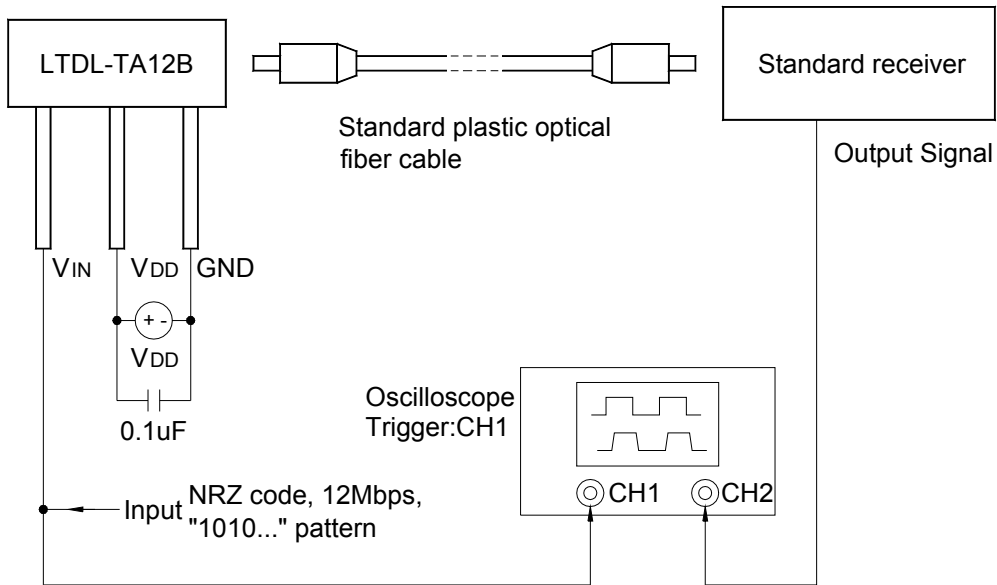
***1 Measuring method of optical output coupling power**



***2 Power dissipation measuring method**



***3 Measuring pulse response**



Note

(1) The impedance of the probe for the oscilloscope must be more than 1MΩ and less than 10pf.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

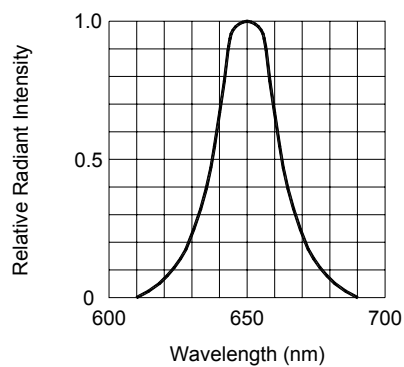


FIG.1 SPECTRAL DISTRIBUTION

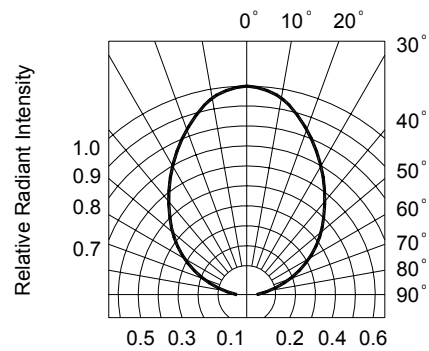


FIG.2 RADIATION DIAGRAM