

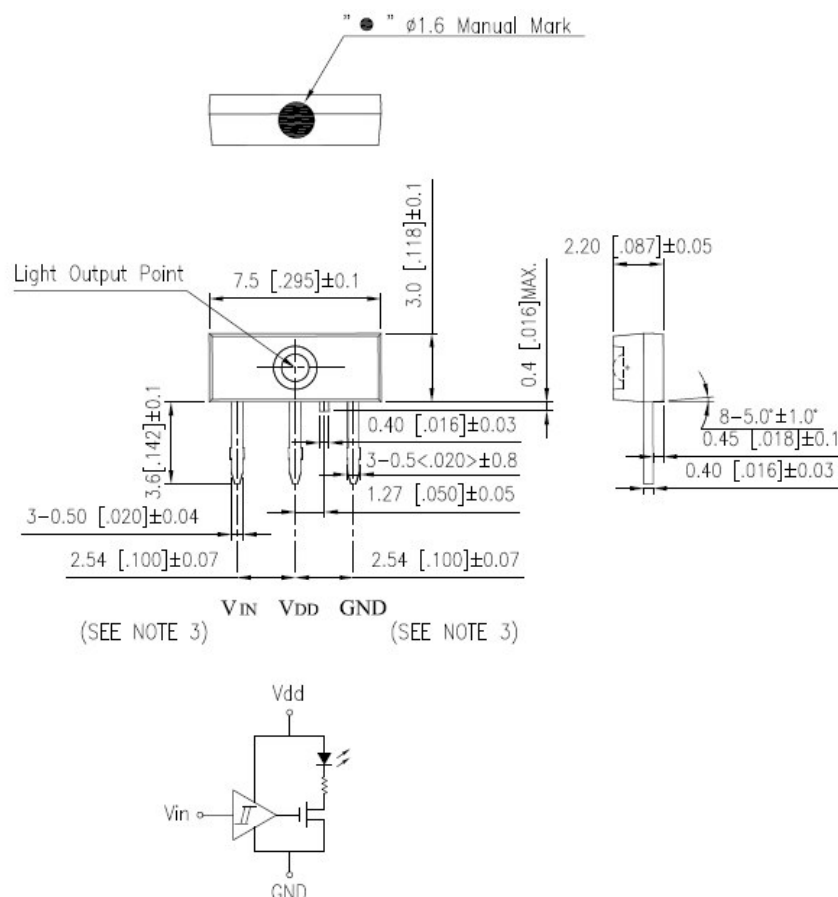
FEATURES

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

V_{DD}	V_{in}	LED	V_{DD}	V_{in}	LED
2.7V ~ 5.25V	HIGH	ON	FLOATING	HIGH	OFF
2.7V ~ 5.25V	LOW	OFF	FLOATING	LOW	OFF
2.7V ~ 5.25V	FLOATING	OFF			

- * WATER CLEAR COMPOUND PACKAGED.

PACKAGE DIMENSIONS



NOTES:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.1\text{mm}$ (.004") unless otherwise noted.
3. Lead spacing is measured where the leads emerge from the package.
4. Mark: Purple color.



LITE-ON TECHNOLOGY CORPORATION

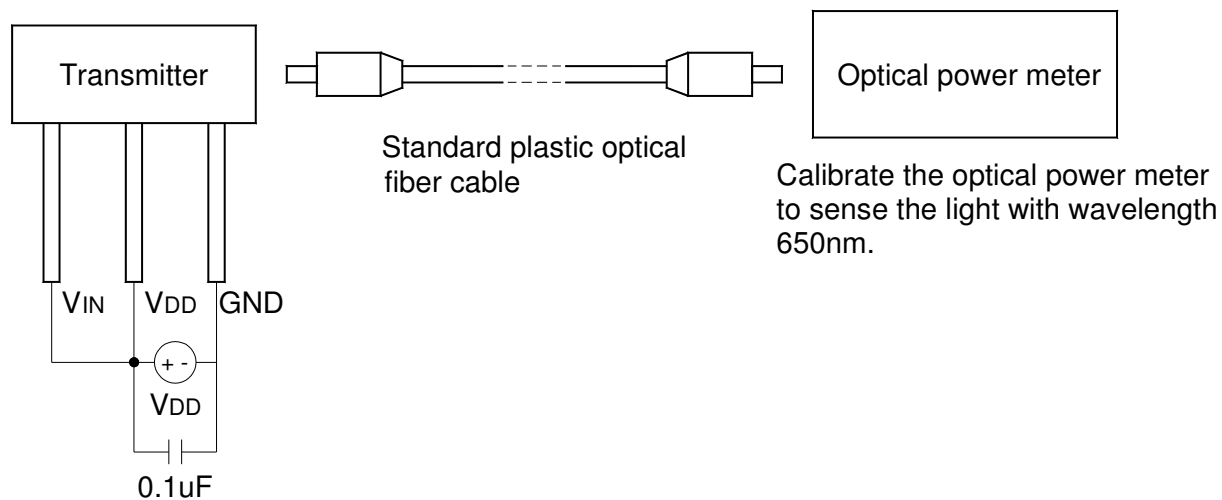
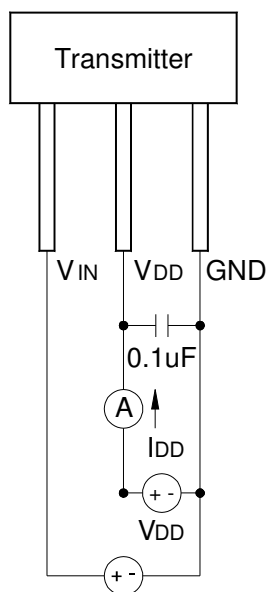
Property of Lite-On Only

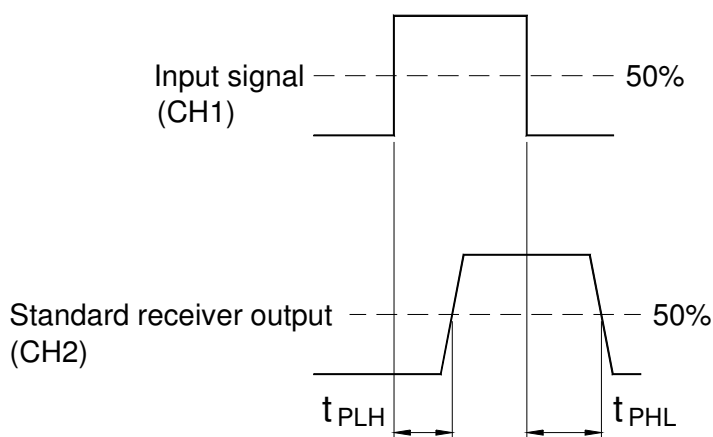
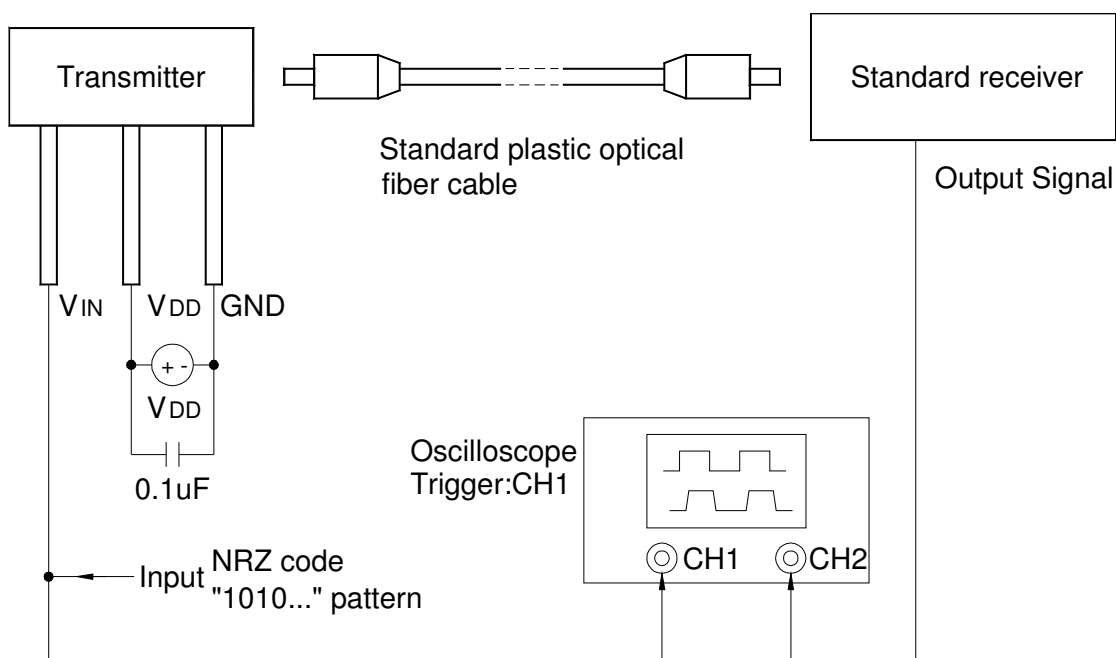
ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V _{DD})	-0.5 ~ +7	V
Input Voltage (V _{IN})	-0.5 ~ V _{DD} +0.5	V
Power Dissipation (P)	120	mW
Human Body Model ESD (HBM)	3K	V
Machine Model ESD (MM)	300	V
Operating Temperature Range	-25 °C to + 70 °C	
Storage Temperature Range	-40 °C to + 70 °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	—	—	25	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}	—	5	12	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}	—	—	100	ns	*3
“High→Low”propagation delay time	t _{PHL}	—	—	100	ns	
Pulse width distortion	Δ t _W	-15	—	15	ns	
Viewing Angle (See FIG.2)	2 θ _{1/2}	—	90	—	deg.	
Jitter	Δ t _j	—	—	15	ns	

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

***2 Power dissipation measuring method**


***3 Measuring pulse response**


$$\text{Pulse width distortion } \Delta tw = t_{PHL} - t_{PLH}$$

Note

 (1) The impedance of the probe for the oscilloscope must be more than $1M\Omega$ and less than 10pf.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

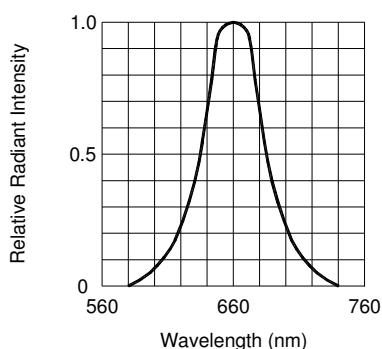


FIG.1 SPECTRAL DISTRIBUTION

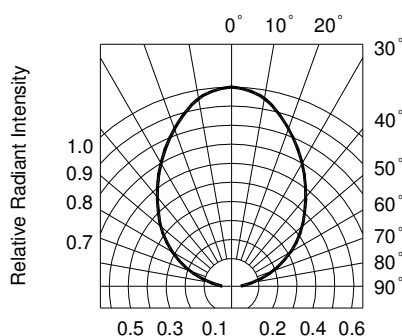


FIG.2 RADIATION DIAGRAM

CAUTIONS

1. Storage

■ For the devices which are stored out of their original packag for more than eight hours, it is better to bake them at about $100 \pm 5^\circ\text{C}$ for at least 4 hours before assembling.

2. ESD (Electrostatic Discharge)

Static Electricity or power surge will damage the devices.

Suggestions to prevent ESD damage:

- Use of a conductive wrist band or anti-electrostatic glove when handling these devices.
- All devices, equipment, and machinery must be properly grounded.
- Work tables, storage racks, etc. should be properly grounded.
- Use ion blower to neutralize the static charge which might have built up on surface of the device's plastic lens as a result of friction between LEDs during storage and handling.

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