



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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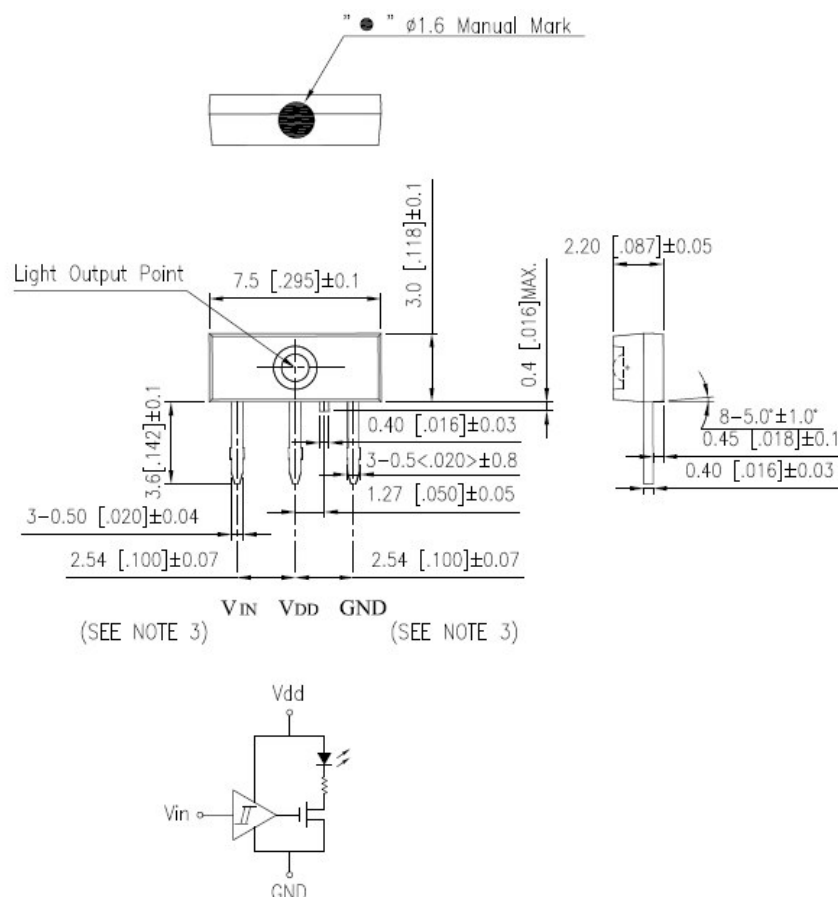
FEATURES

- * 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

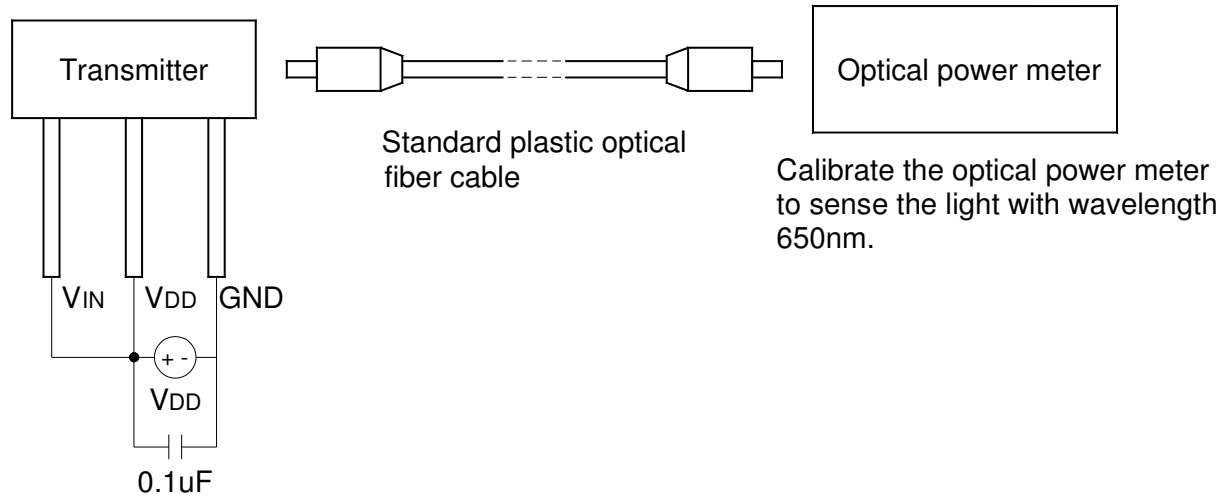
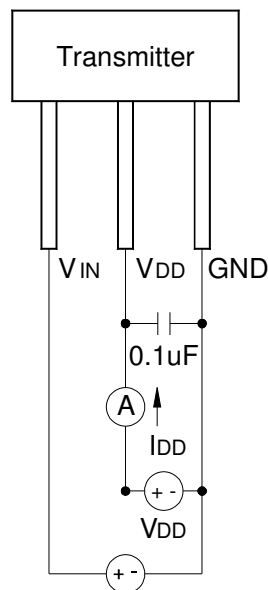
Property of Lite-On Only

ABSOLUTE MAXIMUM RATINGS AT TA=25°C

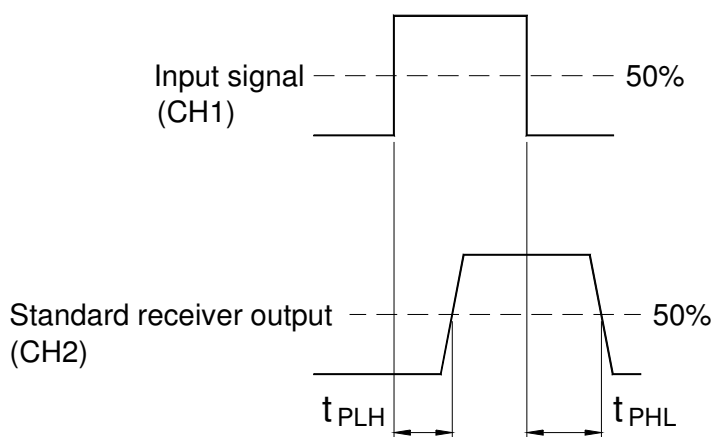
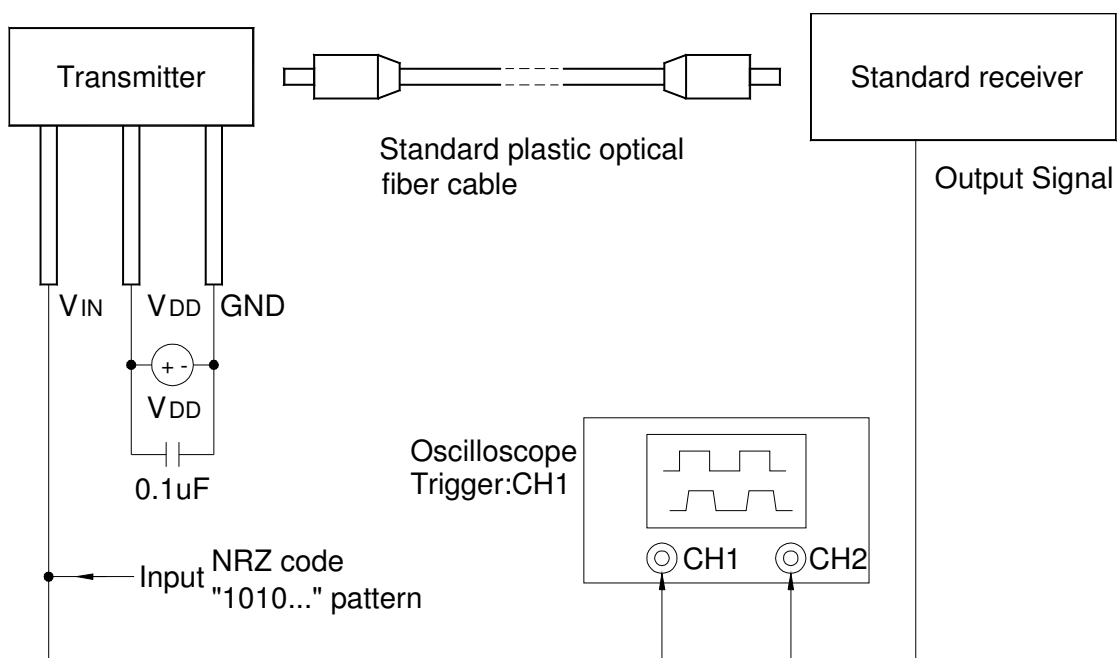
PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V _{DD})	-0.5 ~ +7	V
Input Voltage (V _{IN})	-0.5 ~ V _{DD} +0.5	V
Power Dissipation (P)	120	mW
Human Body Model ESD (HBM)	3K	V
Machine Model ESD (MM)	300	V
Operating Temperature Range	-25 °C to + 70 °C	
Storage Temperature Range	-40 °C to + 70 °C	
Lead Soldering 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 1MΩ and less than 10pf.

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTICS CURVES

(25°C Ambient Temperature Unless Otherwise Noted)

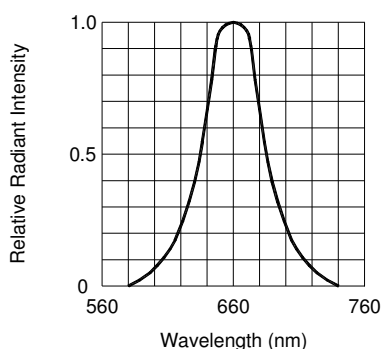


FIG.1 SPECTRAL DISTRIBUTION

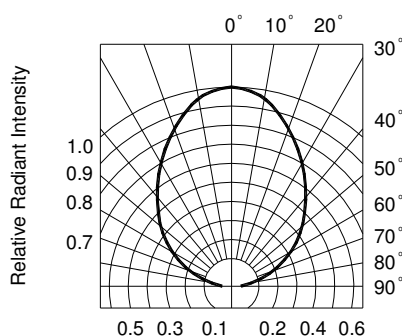


FIG.2 RADIATION DIAGRAM

CAUTIONS

1. Storage

■ For the devices which are stored out of their original package 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.