



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!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



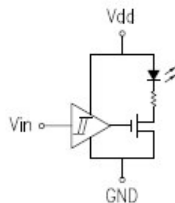
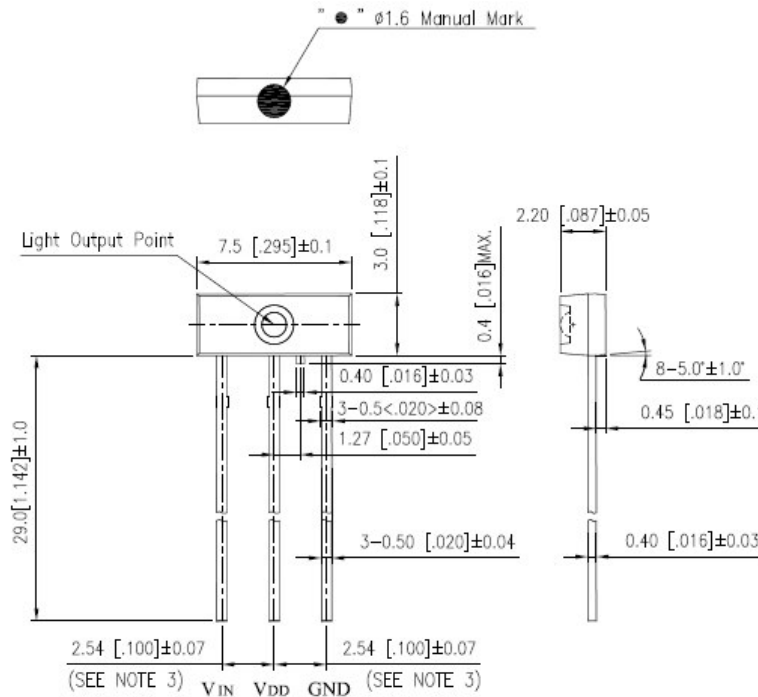
**FEATURES**

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

$V_{DD}$	$V_{in}$	LED	$V_{DD}$	$V_{in}$	LED
2.75V ~ 3.3V	HIGH	ON	FLOATING	HIGH	OFF
2.75V ~ 3.3V	LOW	OFF	FLOATING	LOW	OFF
2.75V ~ 3.3V	FLOATING	OFF			

- \* WATER CLEAR EPOXY COMPOUND PACKAGED.

**PACKAGE DIMENSIONS**



**NOTES:**

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



# LITE-ON TECHNOLOGY CORPORATION

Property of Lite-On Only

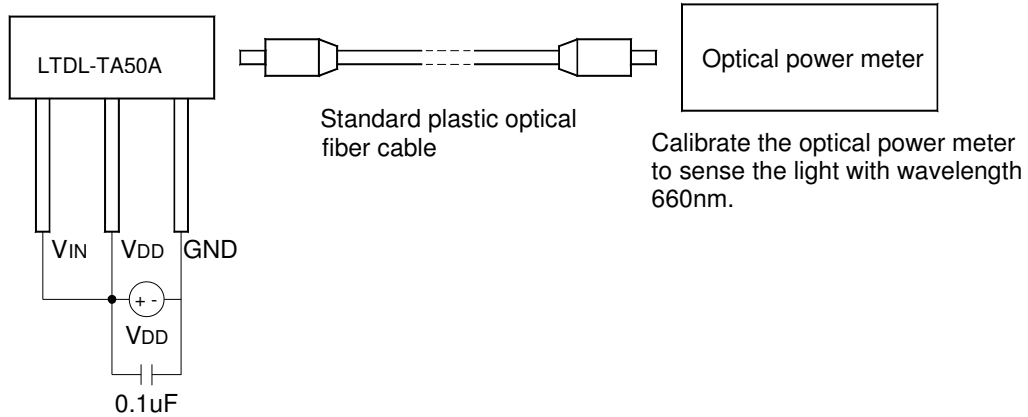
## ABSOLUTE MAXIMUM RATINGS AT TA=25°C

PARAMETER	MAXIMUM RATING	UNIT
Supply Voltage (V <sub>DD</sub> )	-0.5 ~ +7	V
Input Voltage (V <sub>IN</sub> )	-0.5 ~ V <sub>DD</sub> +0.5	V
Power Dissipation (P)	120	mW
Operating Temperature Range	-25 °C to + 70 °C	
Storage Temperature Range	-40 °C to + 85 °C	
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds	

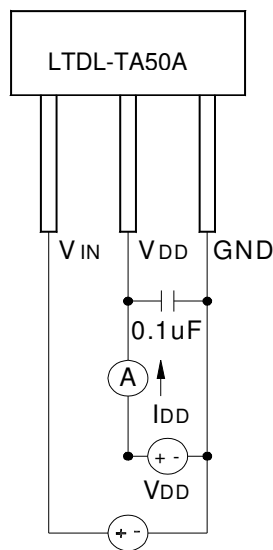
## ELECTRICAL OPTICAL CHARACTERISTICS AT TA=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Transmission Speed	T <sub>s</sub>	—	—	50	Mbps	NRZ signal
Operating Voltage	V <sub>DD</sub>	2.75	—	5.25	V	
Peak Emission Wavelength	λ <sub>Peak</sub>	630	650	690	nm	
Fiber coupling light output	P <sub>c</sub>	-21	-17	-15	dBm	*1
Dissipation current	I <sub>DD</sub>	0.5	—	10	mA	*2
High level input voltage	V <sub>IH</sub>	2	—	—	V	
Low level input voltage	V <sub>IL</sub>	—	—	0.8	V	
“Low→High”propagation delay time	t <sub>PLH</sub>	—	—	50	ns	*3
“High→Low”propagation delay time	t <sub>PHL</sub>	—	—	50	ns	
Pulse width distortion	Δ t <sub>w</sub>	-8	—	8	ns	
Jitter	Δ t <sub>j</sub>	—	—	8	ns	

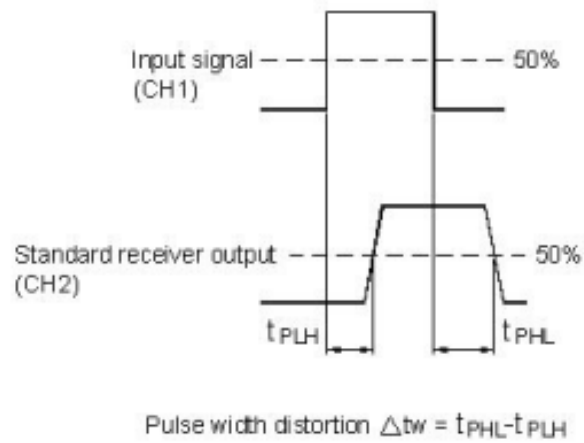
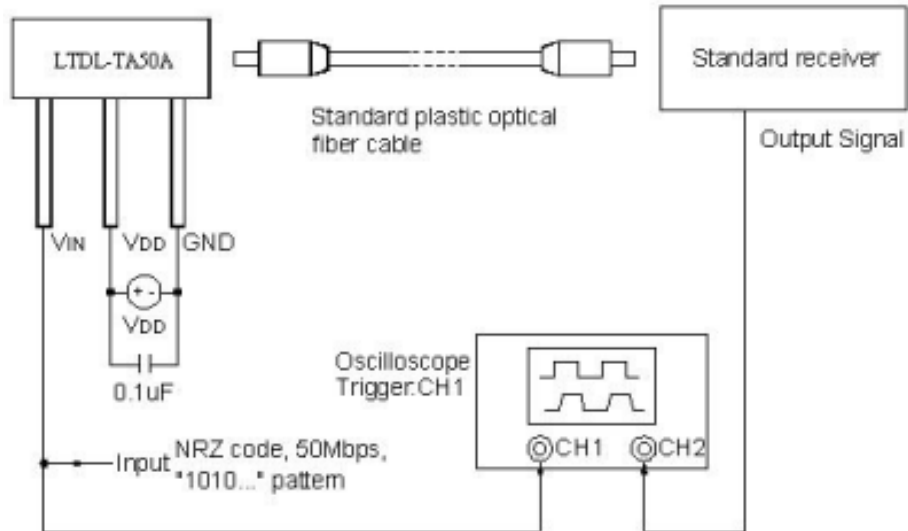
## \*1 Measuring method of optical output coupling power



## \*2 Power dissipation measuring method



**\*3 Measuring pulse response**





## CAUTIONS

### 1. Storage

■ For the devices which are stored out of their original packaging and storage ambient should not exceed 30°C temperature 60% relative humidity for more than 168 hrs, it is better to bake them at about 100±5°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 devices during storage and handling.