Property of Lite-On Only

FEATURES

- *LARGE, BRIGHT, UNIFORM LIGHT EMITTING AREAS.
- *LOW POWER REQUIREMENT.
- *EXCELLENT ON-OFF CONTRAST.
- *CAN BE USED WITH PANEL AND LEGEND MOUNT.
- *WIDE VIEWING ANGLE.
- * SOLID STATE RELIABILITY.
- *CATEGORIZED FOR LIGHT OUTPUT.

DESCRIPTION

The LTL-53173Y is a rectangular light source display that is designed for a variety of applications where a large bright source of light is required. This device utilizes yellow LED chips that are made from GaAsP on a transparent GaP substrate, and has yellow bar color.

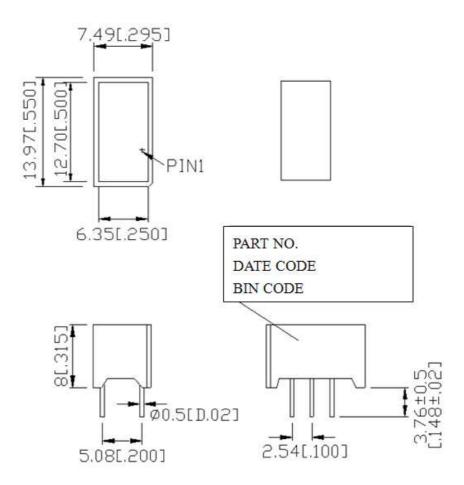
DEVICE

PART NO.	DESCRIPTION		
YELLOW	Universal		
LTL-53173Y	Rectangular Bar		

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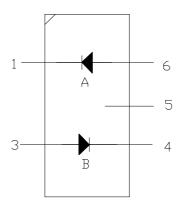
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PACKAGE DIMENSIONS



NOTES: All dimensions are in millimeters. Tolerance is \pm 0.25-mm (0.01") unless otherwise noted.

INTERNAL CIRCUIT DIAGRAM



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PIN CONNECTION

No.	CONNECTION				
1	CATHODE A				
2	NO PIN				
3	ANODE B				
4	CATHODE B				
5	NO CONNECTION				
6	ANODE A				

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Property of Lite-On Only

ABSOLUTE MAXIMUM RATING AT T_A=25°C

PARAMETER	MAXIMUM RATING	UNIT			
Power Dissipation Per Bar	60	mW			
Peak Forward Current Per Bar (1/10 Duty Cycle, 0.1ms Pulse Width)	80	mA			
Continuous Forward Current Per Bar	20	mA			
Derating Linear From 25 ^o C Per Bar	0.27	mA/ ⁰ C			
Operating Temperature Range	-35° C to $+85^{\circ}$ C				
Storage Temperature Range	-35° C to $+85^{\circ}$ C				
Solder Temperature 1/16 inch Below Seating Plane for 3 Seconds at 260 ^o C					

ELECTRICAL / OPTICAL CHARACTERISTICS AT T_A=25°C

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	2300	4200		μcd	I _F =10mA
Peak Emission Wavelength	λр		585		nm	I _F =20mA
Spectral Line Half-Width	Δλ		35		nm	I _F =20mA
Dominant Wavelength	λd		588		nm	I _F =20mA
Forward Voltage. Per Bar	VF		2.1	2.6	V	I _F =20mA
Reverse Current, Per Bar	IR			100	μΑ	V _R =5V

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

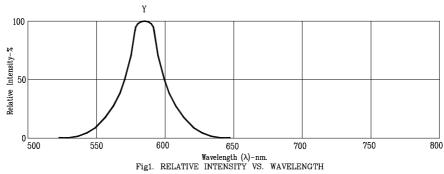
2. Reverse voltage is only for IR test. It can not continue to operate at this situation.

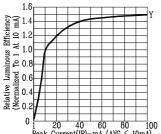
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Property of Lite-On Only

TYPICAL ELECTRICAL / OPTICAL CHARACTERISTIC CURVES

(25°C Ambient Temperature Unless Otherwise Noted)





*1 20 40 60 80 100
Peak Current(IP)-mA (AVG \(\) 10mA)
RELATIVE LUMINOUS EFFICIENCY
(LUMINOUS INTENSITY PER UNIT
CURRENT) VS. PEAK CURRENT
(REFRESH RATE 1KHz)

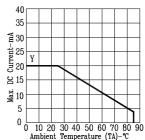
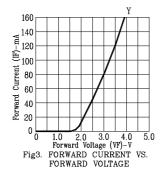
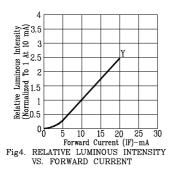


Fig5. MAX. ALLOWABLE DC CURRENT VS. AMBIENT TEMPERATURE.





1000 500 200 5 10 20 Duty Cycle % 100 Fig6. MAX PEAK CURRENT VS.
DUTY CYCLE % (REFRESH RATE 1KHz)

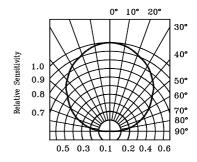


Fig.7 Sensitivity Diagram

NOTE : Y=YELLOW

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