

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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12.7mm × 6.35mm Light Bar LTL-50000 Series

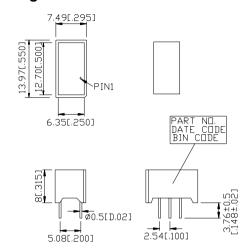
Features

- 12.7mm imes 6.35mm rectangular light bar.
- Choices of three bright colors-green/yellow/high efficiency red.
- · Large, bright, uniform light emitting areas.
- · Low power requirement.
- · Excellent ON-OFF contrast.
- · Can be used with panel and legend mount.
- · Easy mounting on P.C. board.
- · Categorized for light output.
- Yellow and green categorized for dominant wavelength.

Description

The LTL-53173Y/54173G/57173HR series bars are rectangular light sources designed for a variety of applications where a large bright source of light is reguired. These light bars are configured in dual-in- line packages. The green series devices utilize LED chips which are made from GaP on a transparent GaP substrate. The yellow and high efficiency red series devices utilize LED chips which are made from GaAsP on a transparent GaP substrate. The green Devices have green bars, yellow devices have yellow bars, and high-efficiency red devices have red bars.

Package Dimensions



Notes:

All dimensions are in millimeters (inches).

Tolerance: ± 0.25mm (0.010") unless otherwise noted.

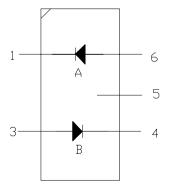
Devices

	Part No. LTL-		Description
Green	Yellow	Hi. Eff. Red	
54173G	53173Y	57173HR	Universal, Rectangular Bar

Pin Connection

Pin No.	Connection
1	Cathode A
2	No Pin
3	Anode B
4	Cathode B
5	No Connection
6	Anode A

Internal Circuit Diagram



Absolute Maximum Ratings at Ta=25℃

Parameter	Green	Yellow	HiEff. Red	Unit		
Power Dissipation Per Chip	75	60	75	mW		
Peak Forward Current Per Chip (1/10 Duty Cycle, 0.1ms Pulse Width)	100	80	100	mA		
Continuous Forward Current Per Chip Derating Linear from 25°C Per Chip	25 0.33	20 0.27	25 0.33	m∀C m∀		
Reverse Voltage Per Chip	5	5	5	V		
Operating Temperature Range -35℃ to +85℃						
Storage Temperature Range -35°C to +85°C						
Solder Temperature 1/16 Inch Below Seating Plane for 3 Seconds at 260℃						

Electrical/Optical Characteristics at Ta=25°C

LTL-54173G

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Average Luminous Intensity	Iv	2.3	4.2		mcd	I=10mA
Peak Emission Wavelength	λР		565		nm	IF=20mA
Spectral Line Half-Width	Δλ		30		nm	IF=20mA
Dominant Wavelength	λd		569		nm	IF=20mA
Forward Voltage, and Chip	VF		2.1	2.6	V	IF=20mA
Reverse Current, and Chip	IR			100	μΑ	V _R =5V

LTL-53173Y

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Average Luminous Intensity	Iv	2.3	4.2		mcd	I=10mA
Peak Emission Wavelength	λР		585		nm	I=20mA
Spectral Line Half-Width	Δλ		35		nm	IF=20mA
Dominant Wavelength	λd		588		nm	Ir=20mA
Forward Voltage, and Chip	VF		2.1	2.6	V	I=20mA
Reverse Current, and Chip	IR			100	μΑ	V _R =5V

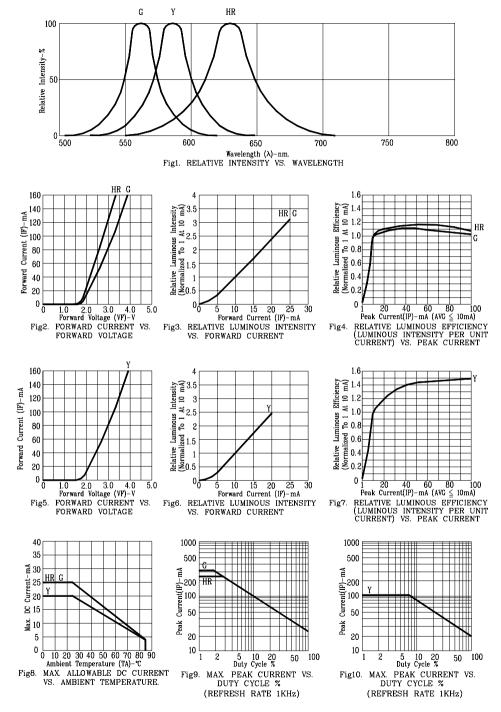
LTL-57173HR

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Average Luminous Intensity	Iv	2.3	4.2		mcd	I=10mA
Peak Emission Wavelength	λР		635		nm	I=20mA
Spectral Line Half-Width	Δλ		40		nm	I=20mA
Dominant Wavelength	λd		623		nm	I=20mA
Forward Voltage, and Chip	VF		2.0	2.6	V	I=20mA
Reverse Current, and Chip	IR			100	μΑ	V _R =5V

Notes: 1.Clean only in water, isopropanol,ethanol,freon TF (or equivalent).

^{2.}Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission Internationale De L'Eclairage)eye-response curve.

Typical Electrical/Optical Characteristic Curves (25℃ Ambient Temperature Unless Otherwise Noted)



NOTE: HR=HI.EFF.RED G=GREEN Y=YELLOW (REFRESH RATE 1KHz)