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LITEON

Light Bars LTL-2000 Series

Features

- 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-2300/2400/2500/2600/2700/2800 series light bars are rectangular light sources designed for a variety of applications where a large bright source of light is required. These light bars are configured in single-in-line and dualin-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 trom GaAsP on a transparent GaP substrate. All devices have white bar.

Devices

	Part No.		Size of Light Emitting Areas	Package Dimension		Internal	
Green	Yellow	Hi. Eff. Red	Size of Light Emitting Areas			Circuit Diagram	
2500G	2400Y	2300HR	8.89mm $ imes$ 3.81mm(.350 in $ imes$.150 in.)	A		А	
2550G	2450Y	2350HR	19mm $ imes$ 3.76mm(.748 in $ imes$.148 in.)	В		В	
2800G	2700Y	2600HR	8.89mm $ imes$ 3.81mm(.350 in $ imes$.150 in.)	С		С	
2855G	2755Y	2655HR	8.89mm $ imes$ 8.89mm(.350 in $ imes$.350 in.)	D		D	
2820G	2720Y	2620HR	8.89mm $ imes$ 3.81mm(.350 in $ imes$.150 in.)	Е		E	
2885G	2785Y	2685HR	8.89mm $ imes$ 19.05mm(.350 in $ imes$.750 in.)	F		F	

Package Dimensions





B. LTL-2350/2450/2550



C. LTL-2600/2700/2800



Notes : All dimensions are in millimeters (inches). Tolerance: \pm 0.25mm (0.010") unless otherwise noted.

Pin Connection

7.62[.300]

Pin No.	Connection								
	A LTL-2300/2400/2500	B LTL-2350/2450/2550	C LTL-2600/2700/2800	D LTL-2655/2755/2855					
1	Cathode A	Cathode A	Cathode A	Cathode A					
2	Anode A	Anode A	Anode A	Anode A					
3	Cathode B	Cathode B	Anode B	Anode B					
4	Anode B	Anode B	Cathode B	Cathode B					
5		Cathode C	Cathode C	Cathode C					
6		Anode C	Anode C	Anode C					
7		Cathode D	Anode D	Anode D					
8		Anode D	Cathode D	Cathode D					

4.5±0.5 [.177±.020]

0.50[.020]

2.54[.100]

[.300]

D. LTL-2655/2755/2855

Pin	Connection						
No.	E. LTL-2620/2720/2820	F. LTL-2685/2785/2885					
1	Cathode A	Cathode A					
2	Anode A	Anode A					
3	Anode B	Anode B					
4	Cathode B	Cathode B					
5	Cathode C	Cathode C					
6	Anode C	Anode C					
7	Anode D	Anode D					
8	Cathode D	Cathode D					
9	Cathode E	Cathode E					
10	Anode E	Anode E					
11	Anode F	Anode F					
12	Cathode F	Cathode F					
13	Cathode G	Cathode G					
14	Anode G	Anode G					
15	Anode H	Anode H					
16	Cathode H	Cathode H					

Internal Circuit Diagrams A. LTL-2300/2400/2500



D. LTL-2655/2755/2855



B. LTL-2350/2450/2550



E. LTL-2620/2720/2820



C. LTL-2600/2700/2800



F. LTL-2685/2785/2885



Absolute Maximum Ratings at Ta=25°C

Parameter	Green	Yellow	Hi Eff. 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℃ Per Chip	25 0.33	20 0.27	25 0.33	mA mA/℃				
Reverse Voltage Per Chip	5	5	5	V				
Operating Temperature Range	-35℃ to +85℃							
Storage Temperature Range	-35℃ to +85℃							
Solder Temperature 1/16 Inch Below Seating Plane for 3 Seconds at 260 $^\circ\!\mathrm{C}$								

Electrical/Optical Characteristics at Ta=25°C

Hi.-Eff Red LTL-2300HR/2600HR

Parameter	LTL-	Symbol	Min.	Тур.	Max.	Unit	Test Condition
	2300		1.4	4.2			
	2350		3.5	8			
Average Luminous	2600	Iv	1.4	4.2		mcd	IF=10mA
Intensity Per Bar	2620		1.4	4.2			
	2655		3.5	8			
	2685		7	16			
Peak Emission Wavelength		λΡ		635		nm	I⊧=20mA
Spectral Line Half-Width		Δλ		40		nm	IF=20mA
Dominant Wavelength		λd		623		nm	IF=20mA
Forward Voltage, and Bar		VF		2.0	2.6	V	I⊧=20mA
Reverse Current, and Bar		IR			100	μA	VR=5V

Yellow LTL-2400Y/2700Y

Parameter	LTL-	Symbol	Min.	Тур.	Max.	Unit	Test Condition
	2400		1.4	4.2			
	2450		3.5	8			
Average Luminous	2700	Ιv	1.4	4.2		mcd	I⊧=10mA
Intensity Per Bar	2720		1.4	4.2			
	2755		3.5	8			
	2785		7	16			
Peak Emission Wavelength		λΡ		585		nm	l⊧=20mA
Spectral Line Half-Width		Δλ		35		nm	l⊧=20mA
Dominant Wavelength		λd		588		nm	l⊧=20mA
Forward Voltage, and Chip		VF		2.1	2.6	V	I⊧=20mA
Reverse Current, and Chip		IR			100	μA	VR=5V

Green LTL-2500G/2800G

Parameter	LTL-	Symbol	Min.	Тур.	Max.	Unit	Test Condition
	2500		1.4	4.2			
	2550		3.5	8			
Average Luminous	2800	Iv	1.4	4.2		mcd	l⊧=10mA
Intensity Per Bar	2820		1.4	4.2			
	2855		3.5	8		1	
	2885		7	16		1	
Peak Emission Wavelength		λΡ		565		nm	l⊧=20mA
Spectral Line Half-Width		$\Delta\lambda$		30		nm	l⊧=20mA
Dominant Wavelength		λq		569		nm	l⊧=20mA
Forward Voltage, and Chip		VF		2.1	2.6	V	l⊧=20mA
Reverse Current, and Chip		IR			100	μ Α	VR=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 (Commision Internationale De L'Eclairage)eye-response curve.

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



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