

DATA SHEET

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www.rapidelectronics.co.uk

5mm LEDs

Order code	Manufacturer code	Description
56-0922	L-59CB/1EGW	TRI-COLOUR 5MM PCB LED

5mm LEDs	Page 1 of 5
The enclosed information is believed to be correct, Information may change 'without notice' due to	Revision A
product improvement. Users should ensure that the product is suitable for their use. E. & O. E.	04/07/2003

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Kingbright

T-1 3/4 (5mm) BI-COLOR RIGHT ANGLE LED **INDICATORS**

L-59CB/1

L-59BL/1

Features

- •PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- •3 LEADS WITH COMMON CATHODE LEAD.
- •THIRD COLOR (MIXED COLOR) AVAILABLE.
- •I.C. COMPATIBLE.
- •BLACK CASE ENHANCES CONTRAST RATIO.
- •WIDE VIEWING ANGLE.
- •HIGH RELIABILITY LIFE MEASURED IN YEARS.

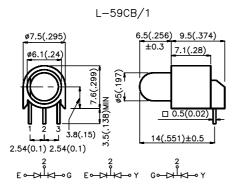
Description

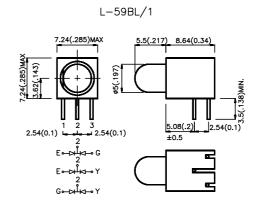
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

The High Efficiency Red source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

The Yellow source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Yellow Light Emitting Diode.

Package Dimensions





- Notes:

 1. All dimensions are in millimeters (inches).

 2. Tolerance is ±0.25(0.01") unless otherwise noted.

 3. Lead spacing is measure d where the lead emer ge package.

 4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20 mA		Viewing Angle
		7,1	Min.	Max	2q1/2
L-59CB/1EGW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	20	90	60°
	GREEN (GaP)	WHITE DIFFUSED	20	70	
L-59CB/1EYW	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	20	90	60°
	YELLOW (GaAsP/GaP)	WHITE DIFFUSED	20	60	
L-59CB/1GYW	GREEN (GaP)	WHITE DIFFUSED	20	70	
	YELLOW (GaAsP/GaP)	MULLE DILLOSED	20	60	

^{*}Luminous intensity of L-59BL/1 series is same as the above in accordance with dice and lens type.

Electrical / Optical Characteristics at T A=25°C

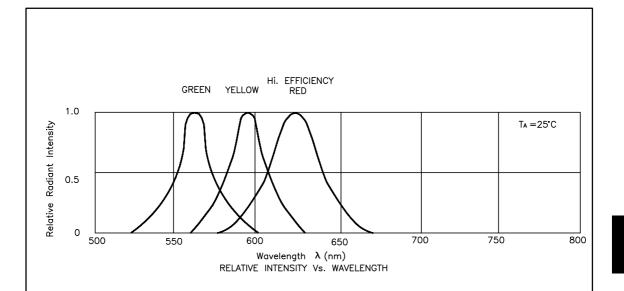
Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	High Efficiency Red Green Yellow	625 565 590		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow	45 30 35		nm	IF=20mA
С	Capacitance	High Efficiency Red Green Yellow	12 45 10		pF	VR=0V;f=1MHz
V _F	Forward Voltage	High Efficiency Red Green Yellow	2.0 2.2 2.1	2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at $T_{\,\text{A}}\text{=}25^{\circ}\text{C}$

Parameter	High Efficiency Red	Green	Yellow	Units	
Power dissipation	105	105	105	mW	
DC Forward Current	30	25	30	mA	
Peak Forward Current [1]	150	150	150	mA	
Reverse Voltage	5	5	5	V	
Operating/Storage Temperature		-40 ° C To +85 ° C			
Lead Soldering Temperature [2]	260 °C For 5 Seconds				

Note: 1. 01/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

Notes: 1. 1/10 Duty Cycle, 0.1 Pulse Width. 2. 4mm below package base.



High Efficiency Red / Green

20

