

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

L-1503CB/1I HIGH EFFICIENCY RED

L-1503CB/1G GREEN

L-1503CB/1Y YELLOW

L-1503CB/1SR SUPER BRIHGT RED

Features

- •PRE-TRIMMED LEADS FOR PC BOARD MOUNTING.
- •I.C. COMPATIBLE.
- •BLACK CASE ENHANCES CONTRAST RATIO.
- •WIDE VIEWING ANGLE.
- •HIGH RELIABILITY LIFE MEASURED IN YEARS.

Description

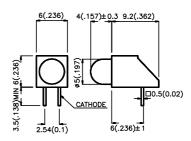
The Green source color devices are made with Gallium Phosphide Green Light Emitting Diode.

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.

The Super Bright Red source color devices are made with Gallium Aluminum Arsenide Red 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 measured where the lead emer-
- ge package.

 4. Specifications are subjected to change without notice.

Selection Guide

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA		Viewing Angle
. 5		2000 1960	Min.	Max.	2q1/2
L-1503CB/1ID	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	12.5	80	60°
L-1503CB/1GD	GREEN (GaP)	GREEN DIFFUSED	5	32	60°
L-1503CB/1YD	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	5	32	60°
L-1503CB/1SRD	SUPER BRIGHT RED (GaAlAs)	RED DIFFUSED	*100	*500	60°

- 1. 61/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value. 2. *Luminous intensity with asterisk is measured at 20 mA.

Electrical / Optical Characteristics at T_A =25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green Yellow Super Bright Red	625 565 590 660		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	High Efficiency Red Green Yellow Super Bright Red	45 30 35 20		nm	IF=20mA	
С	Capacitance	High Efficiency Red Green Yellow Super Bright Red	12 45 10 95		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	High Efficiency Red Green Yellow Super Bright Red	2.0 2.2 2.1 1.85	2.5 2.5 2.5 2.5	V	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

Absolute Maximum Ratings at T_A =25°C

Parameter	High Efficiency Red	Green	Yellow	Super Bright Red	Units
Power dissipation	105	105	105	100	mW
DC Forward Current	30	25	30	30	mA
Peak Forward Current [1]	150	150	150	150	mA
Reverse Voltage	5	5	5	5	V
Operating/Storage Temperature -40° C To +85 ° C					
Lead Soldering Temperature [2]	260 °C For 5 Seconds				

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

