

5x5mm SQUARE TOP LED LAMPS

L-503H BRIGHT RED L-503I HIGH EFFICIENCY RED L-503G GREEN L-503Y YELLOW

Features

- •LOW POWER CONSUMPTION.
- •ULTRA BRIGHTNESS IS AVAILABLE.
- •WIDE VIEWING ANGLE.
- •RELIABLE AND RUGGED.
- •EXCELLENT UNIFORMITY OF LIGHT OUTPUT.
- •IDEAL AS FLUSH MOUNTED PANEL INDICATORS.
- •LONG LIFE SOLID STATE RELIABILITY.

Description

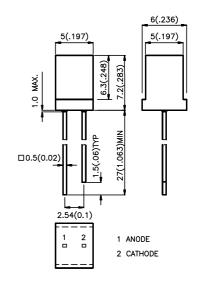
The Bright Red source color devices are made with Gallium Phosphide Red Light Emitting Diode.

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

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

Package Dimensions



- 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
			Min.	Max.	2q1/2
L-503HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.5	2	110°
L-503IDT	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3.2	12.5	110°
L-503GDT	GREEN (GaP)	GREEN DIFFUSED	1.3	8	110°
L-503YDT	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1.3	8	110°

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

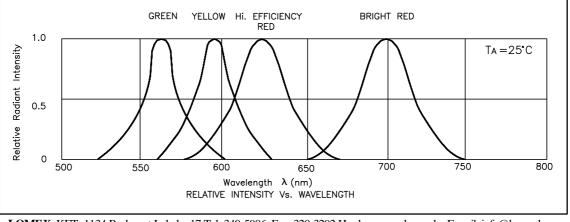
Electrical / Optical Characteristics at T_A=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	Bright Red High Efficiency Red Green Yellow	700 625 565 590		nm	IF=20mA	
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Green Yellow	45 45 30 35		nm	IF=20mA	
С	Capacitance	Bright Red High Efficiency Red Green Yellow	40 12 45 10		pF	VF=0V;f=1MHz	
V _F	Forward Voltage	Bright Red High Efficiency Red Green Yellow	2.0 2.0 2.2 2.1	2.5 2.5 2.5 2.5	V	IF=20mA	
I _R	Reverse Current	All	10		uA	VR = 5V	

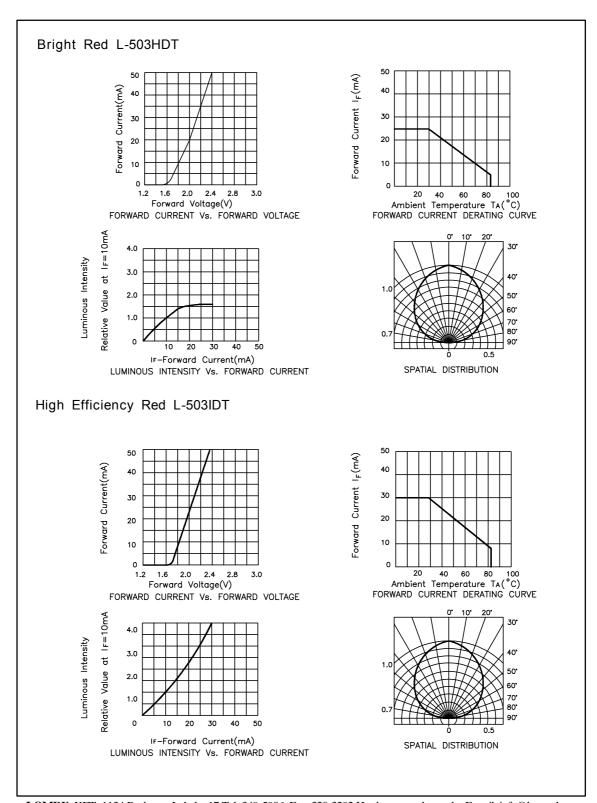
Absolute Maximum Ratings at T_A =25°C

Parameter	Bright Red	High Efficiency Red	Green	Yellow	Units	
Power dissipation	120	105	105	105	mW	
DC Forward Current	25	30	25	30	mA	
Peak Forward Current [1]	150	150	150	150	mA	
Reverse Voltage	5	5	5	5	٧	
Operating/Storage Temperature	-40 °C To +85 °C					
Lead Soldering Temperature [2]	260 ° C For 5 Seconds					

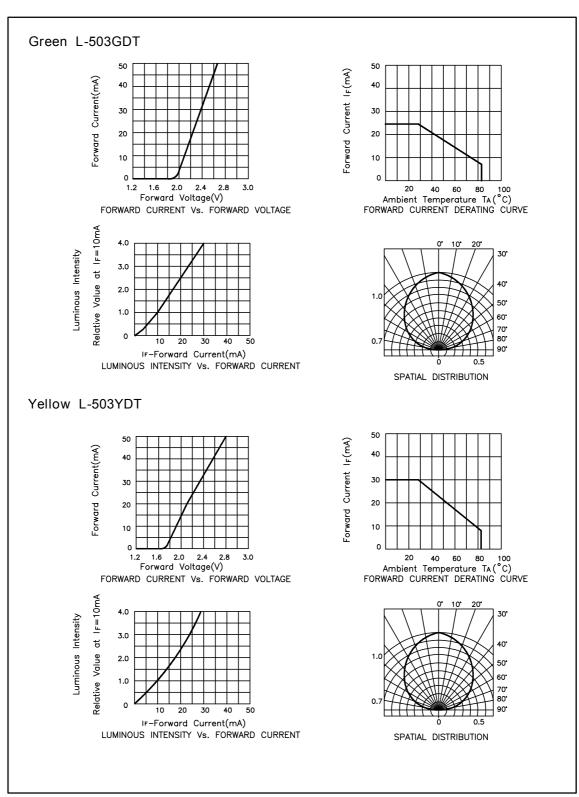
Notes: 1. 1/10 Duty Cycle, 0.1ms Pulse Width. 2. 4mm below package base.



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