

T-1 (3mm) CYLINDRICAL LED LAMPS

L-483 BRIGHT RED L-483I HIGH EFFICIENCY RED L-483G GREEN L-483Y YELLOW

L-483E ORANGE

L-483SRSG SUPER BRIGHT RED / SUPER BRIGHT GREEN

- •CYLINDRICAL TYPE, TOP DIFFUSED.
- •LOW POWER CONSUMPTION.
- •SUPER BRIGHT RED AND SUPER GREEN BI-COLOR VERSION IS AVAILABLE.
- •I.C. COMPATIBLE.
- •RELIABLE AND RUGGED.
- •LONG LIFE SOLID STATE RELIABILITY.
- •AVAILABLE ON TAPE AND REEL.

Description

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

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

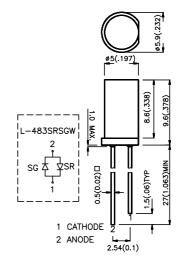
The High Efficiency Red and Orange source color devices are made with Gallium Arsenide Phosphide on Gallium Phosphide Orange Light Emitting Diode.

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.

Selection Guide

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 emerge package.

 4. Specifications are subjected to change without notice.

Part No.	Dice	Lens Type	lv (mcd) @ 10 mA		Viewing Angle
			Min.	Max.	2q1/2
L-483HDT	BRIGHT RED (GaP)	RED DIFFUSED	0.5	3.2	100°
L-483IDT	HIGH EFFICIENCY RED (GaAsP/GaP)	RED DIFFUSED	3.2	12.5	100°
L-483EDT	ORANGE (GaAsP/GaP)	ORANGE DIFFUSED	3.2	12.5	100°
L-483GDT	GREEN (GaP)	GREEN DIFFUSED	1.3	8	100°
L-483YDT	YELLOW (GaAsP/GaP)	YELLOW DIFFUSED	1.3	8	100°
L-483SRSGW	SUPER BRIGHT RED (GaAlAs)	WHITE DIEELIGED	*12.5	*60	80°
	SUPER BRIGHT GREEN (GaP)	WHITE DIFFUSED	*5	*20	

- Notes:

 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 is 20mA.

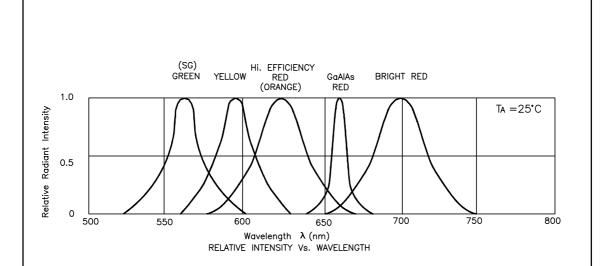
Electrical / Optical Characteristics at $T_A \text{=-}25^{\circ}\text{C}$

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red Super Bright Green	700 625 625 565 590 660 565		nm	IF=20mA
Δλ1/2	Spectral Line Halfwidth	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red Super Bright Green	45 45 45 30 35 20 30		nm	IF=20mA
С	Capacitance	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red Super Bright Green	40 12 12 45 10 95 45		pF	VF=0V;f=1MHz
V _F	Forward Voltage	Bright Red High Efficiency Red Orange Green Yellow Super Bright Red Super Bright Green	2.0 2.0 2.0 2.2 2.1 1.85 2.0	2.5 2.5 2.5 2.5 2.5 2.5 2.5 2.5	V	IF=20mA
I _R	Reverse Current	All	10		uA	VR = 5V

Absolute Maximum Ratings at $T_{\!\scriptscriptstyle A} \! = \! 25^{\circ} C$

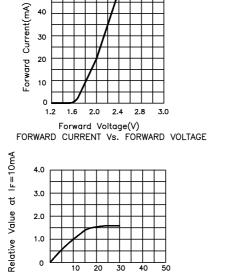
Parameter	Bright Red	High Efficiency Red	Orange	Green	Yellow	Super Bright Red	Super Bright Green	Units
Power dissipation	105	105	105	105	105	100	105	mW
DC Forward Current	25	30	30	25	30	30	25	mA
Peak Forward Current [1]	150	150	150	150	150	150	150	mA
Reverse Voltage	5	5	5	5	5	5	5	V
Operating/Storage 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.

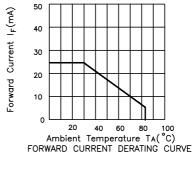


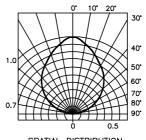
Bright Red L-483HDT

Luminous Intensity

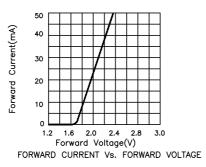


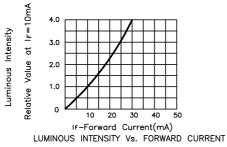
IF-Forward Current(mA)
LUMINOUS INTENSITY Vs. FORWARD CURRENT

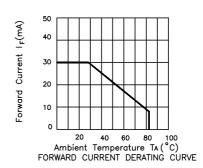


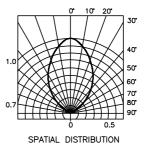


High Efficiency Red L-483IDT Orange L-483EDT









Green L-483GDT

