# Kingbright

### T-1 3/4 (5mm) BI-COLOR CYLINDRICAL LED LAMP

PRELIMINARY SPEC

L-489EGWT-CA

HIGH EFFICIENCY RED GREEN

#### Features

•CYLINDRICAL TYPE, TOP DIFFUSED.

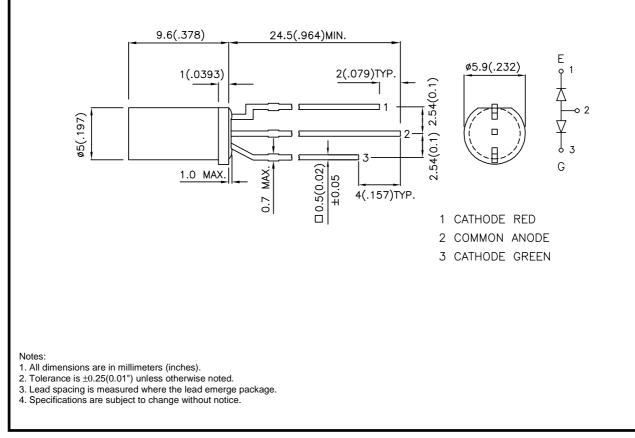
•LOW POWER CONSUMPTION.

- I.C. COMPATIBLE.
- •LONG LIFE SOLID STATE RELIABILITY.
- •RELIABLE AND RUGGED.

#### Description

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

#### Package Dimensions



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Selection Guide								
Part No.	Dice	Lens Type	lv (mcd) @ 20mA		Viewing Angle			
			Min.	Тур.	2 θ 1/2			
L-489EGWT-CA	HIGH EFFICIENCY RED (GaAsP/GaP)	WHITE DIFFUSED	2.6	6	100°			
	GREEN (GaP)	WHITE DIFF03ED	1.6	5				

Note:

1.  $\theta$ 1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

#### Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Тур.	Max.	Units	Test Conditions	
λpeak	Peak Wavelength	High Efficiency Red Green	627 565		nm	IF=20mA	
λD	Dominate Wavelength	High Efficiency Red Green	625 568		nm	IF=20mA	
Δλ1/2	Spectral Line Half-width	High Efficiency Red Green	45 30		nm	IF=20mA	
С	Capacitance	High Efficiency Red Green	15 15		pF	VF=0V;f=1MHz	
VF	Forward Voltage	High Efficiency Red Green	2.0 2.2	2.5 2.5	V	IF=20mA	
Ir	Reverse Current	All		10	uA	Vr = 5V	

#### Absolute Maximum Ratings at TA=25°C

Parameter	High Efficiency Red	Green	Units			
Power dissipation	105	105	mW			
DC Forward Current	30	25	mA			
Peak Forward Current [1]	160	140	mA			
Reverse Voltage	5		V			
Operating/storage Temperature	-40°C To +85°C					
Lead Solder Temperature [2]	260°C For 3 Seconds					
Lead Solder Temperature [3]	260°C For 5 Seconds					

Notes:

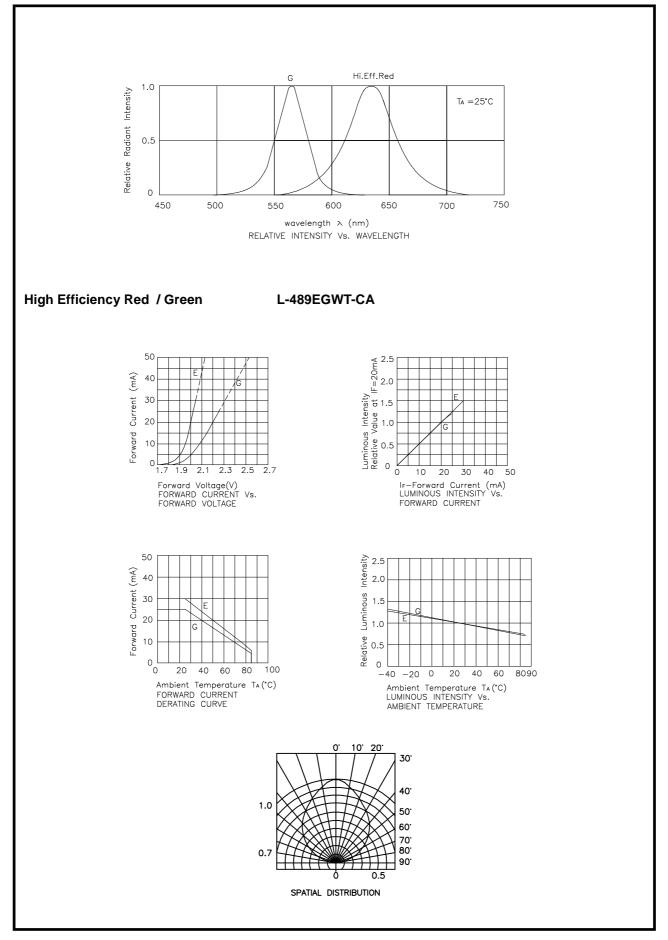
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

2. 2mm below package base.

3. 5mm below package base.

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