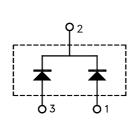
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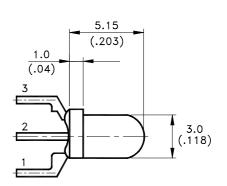
Features

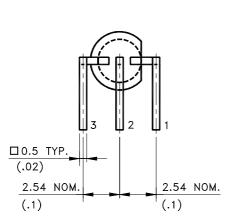
- * Hi.Eff.Red and Green chips are matched for uniform light output.
- * Long life-solid state reliability.
- * Low power consumption.
- * I.C. compatible.

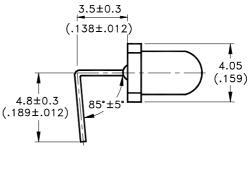
Package Dimensions



- 1. Hi.Eff.Red Anode
- 2. Common Cathode
- 3. Green Anode







Part No.	Lens	Source Color		
LTL-1BEHKVMP1	Water Clear	Hi-Eff.Red / Green		

Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is ± 0.25 mm(.010") unless otherwise noted.
- 3. Protruded resin under flange is 1.0mm(.04") max.
- 4. Lead spacing is measured where the leads emerge from the package.
- 5. Specification are subject to change without notice.

Part No.: LTL-1BEHKVMP1	Page:	1	of	4	
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Absolute Maximum Ratings at TA=25℃

Parameter	Hi.Eff.Red	Green	Unit	
Power Dissipation	100	100	mW	
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	120	120	mA	
Continuous Forward Current	30	30	mA	
Derating Linear From 50°C	0.4	0.4	mA/°C	
Reverse Voltage	5	5	V	
Operating Temperature Range	-55°C to + 100°C			
Storage Temperature Range	-55°C to + 100°C			
Lead Soldering Temperature [1.6mm(.063") From Body]	260°C for 5 Seconds			

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Electrical Optical Characteristics at TA=25°C

Parameter	Symbol	Color	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	Hi.Eff.Red Green	5.6 8.7	19 29		Mcd	I _F = 10mA Note 1,4
Viewing Angle	2 θ 1/2	Hi.Eff.Red Green		55 55		deg	Note 2 (Fig.6)
Peak Emission Wavelength	λp	Hi.Eff.Red Green		650 565		nm	Measurement @Peak (Fig.1)
Dominant Wavelength	λd	Hi.Eff.Red Green		635 569		nm	Note 3
Spectral Line Half-Width	Δλ	Hi.Eff.Red Green		40 30		nm	
Forward Voltage	V _F	Hi.Eff.Red Green		2.0 2.1	2.6 2.6	V	$I_F = 20 \text{mA}$
Reverse Current	I_R	Hi.Eff.Red Green			100 100	μ A	$V_R = 5V$
Capacitance	С	Hi.Eff.Red Green		20 35		pF	$V_F = 0$, $f = 1MHz$

Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commission International De L'Eclairage) eye-response curve.

- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- 3. The dominant wavelength, λ_d is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.
- 4. The stated maximum ratings refer to one chip.

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Typical Electrical / Optical Characteristics Curves

(25°C Ambient Temperature Unless Otherwise Noted)

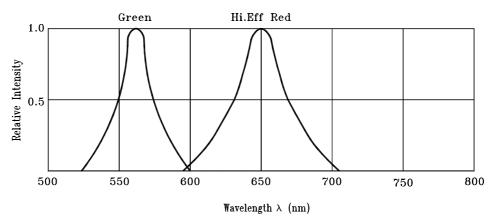


Fig.1 Relative Intensity vs. Wavelength

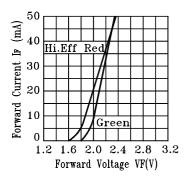


Fig.2 Forward Current vs. Forward Voltage

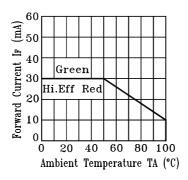


Fig.3 Forward Current Derating Curve

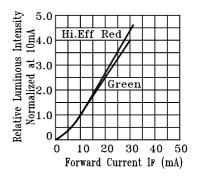


Fig.4 Relative Luminous Intensity vs. Forward Current

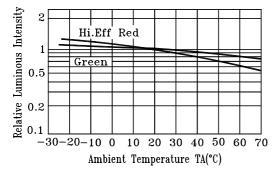


Fig.5 Luminous Intensity vs. Ambient Temperature

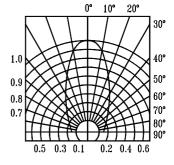


Fig.6 Spatial Distribution

Part No.: LTL-1BEHKVMP1 Page: 4 4 of