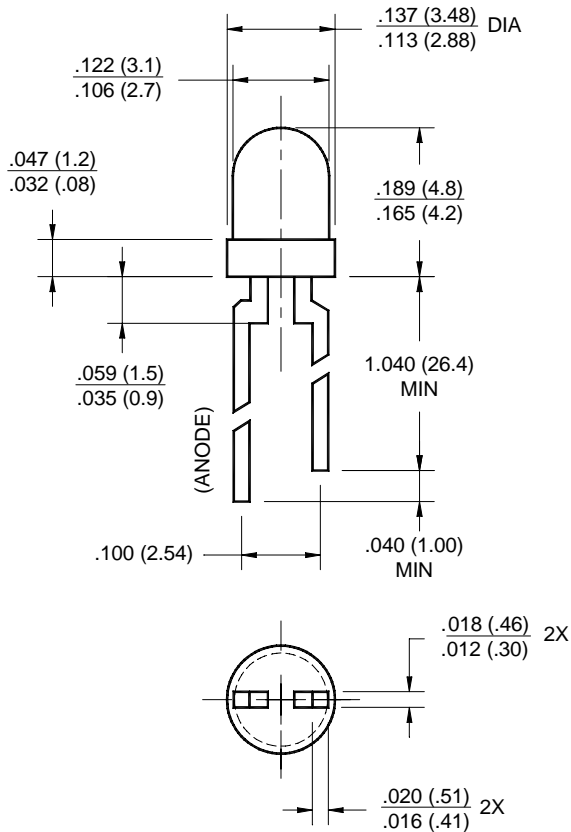


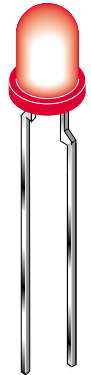
PURE GREEN	HLMP-K600	TINTED
PURE GREEN	HLMP-K640	CLEAR
SOFT ORANGE	HLMP-K400	TINTED
SOFT ORANGE	HLMP-K401	TINTED
SOFT ORANGE	HLMP-K402	TINTED

## PACKAGE DIMENSIONS



## FEATURES

- Popular T-100 package
- Low drive current
- Solid state reliability
- Wide viewing angle
- Choice of pure green or soft orange colors



## DESCRIPTION

These T-100 LEDs are widely used as general purpose indicators. The pure green lamps is made with a GaP LED on a GaP substrate. The soft orange is made with a GaAsP LED on a GaP substrate. They are encapsulated in epoxy packages and are designed to provide superior light output and a wide viewing angle.

## NOTES:

1. ALL DIMENSIONS ARE IN INCHES (mm).
2. LEAD SPACING IS MEASURED WHERE THE LEADS EMERGE FROM THE PACKAGE.
3. PROTRUDED RESIN UNDER THE FLANGE IS 1.5 mm (.059) MAX.

## ABSOLUTE MAXIMUM RATING (T<sub>A</sub> =25°C)

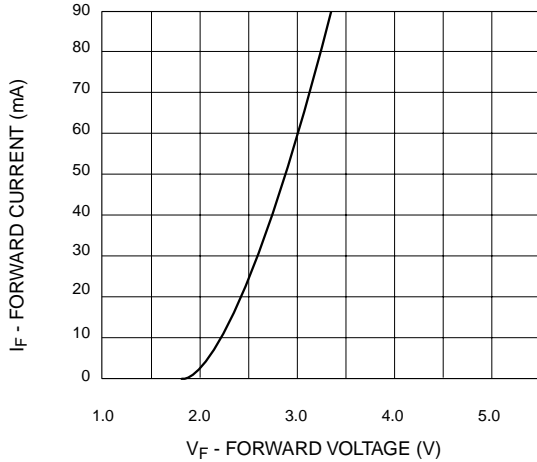
Parameter	GREEN	ORANGE	UNITS
Power Dissipation	110	110	mW
Forward Current	40	40	mA
Peak Forward Current (f=1kHz, DF=10%)	200	200	mA
Lead Soldering Time at 260° C	5	5	sec
Operating Temperature	-40 to +100	-40 to +100	°C
Storage Temperature	-40 to +100	-40 to +100	°C

**ELECTRICAL / OPTICAL CHARACTERISTICS** (T<sub>A</sub> = 25°C)

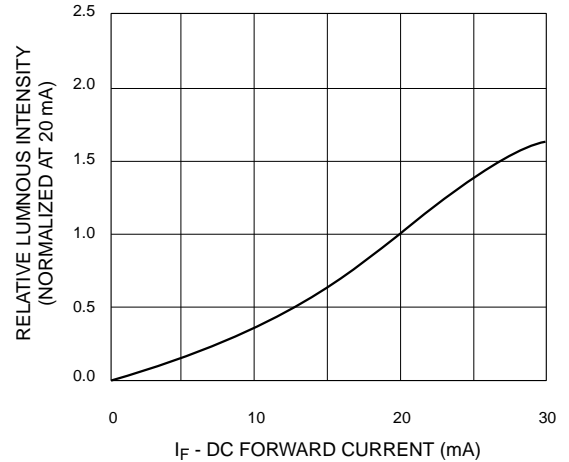
Part Number	HLMP-K600	HLMP-K640*	HLMP-K400	HLMP-K401	HLMP-K402	Condition
Luminous Intensity (mcd)						I <sub>F</sub> = 10mA
Minimum	1.0	4.0	1.0	2.0	3.0	
Typical	4.5	15.0	4.0	5.0	7.0	
Forward Voltage (V)						I <sub>F</sub> = 10mA
Maximum	2.7	3.0	2.4	2.4	2.4	
Typical	2.1	2.2	1.9	1.9	1.9	
Peak Wavelength (nm)	555	555	612	612	612	I <sub>F</sub> = 10mA
Spectral Line Half Width (nm)	24	24	40	40	40	I <sub>F</sub> = 10mA
Reverse Voltage (V)	5	5	5	5	5	I <sub>R</sub> = 100μA
Viewing Angle (°)	90	45	90	90	90	I <sub>F</sub> = 10mA

\* HLMP-K640 test condition is I<sub>F</sub> = 20mA

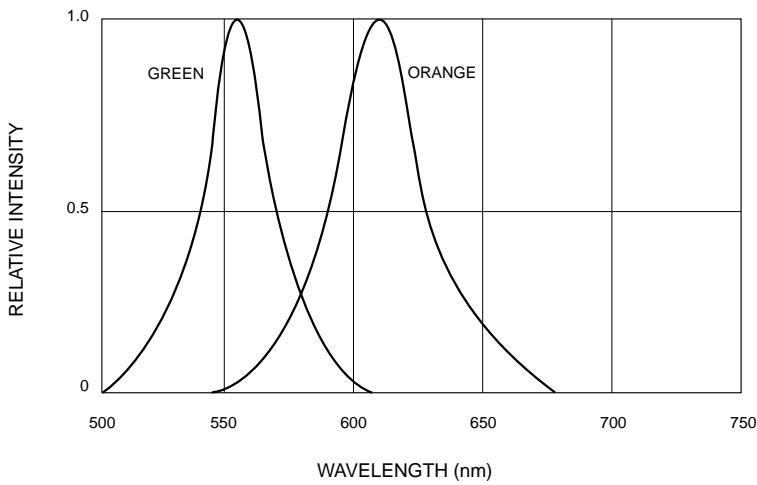
**TYPICAL PERFORMANCE CURVES (T<sub>A</sub> =25°C)**



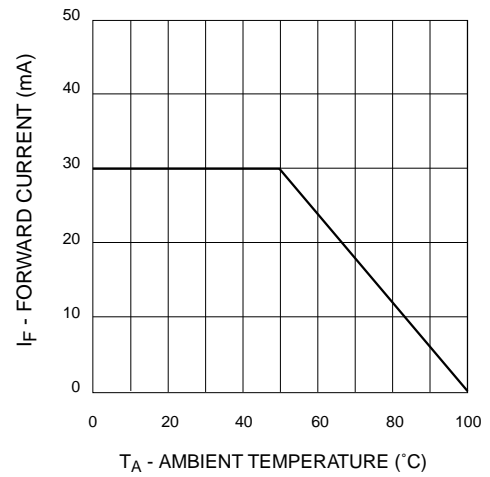
**Fig. 1 Forward Current vs. Forward Voltage**



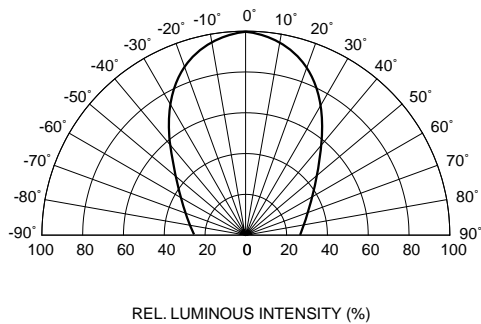
**Fig. 2 Relative Luminous Intensity vs. DC Forward Current**



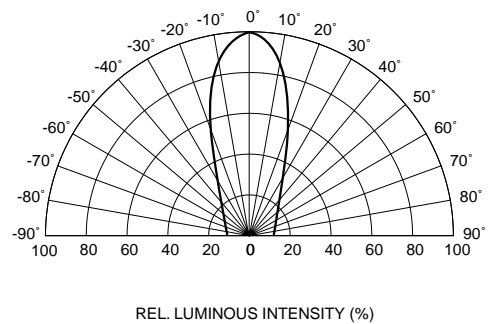
**Fig. 3 Relative Intensity vs. Peak Wavelength**



**Fig. 4 Current Derating Curve**



**Fig. 5A Radiation Diagram  
(HLMP-K600, HLMP-K400, HLMP-K401, HLMP-K402)**



**Fig. 5B Radiation Diagram  
(HLMP-K640)**

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