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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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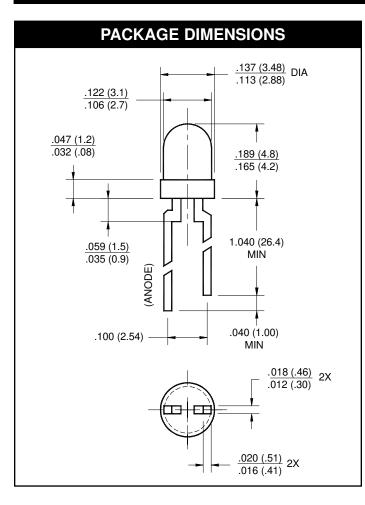






## T-100 (3 mm) SOLID STATE LAMPS

<b>PURE GREEN</b>	HLMP-K600	TINTED
<b>PURE GREEN</b>	HLMP-K640	CLEAR
SOFT ORANGE	HLMP-K400	TINTED
SOFT ORANGE	HLMP-K401	TINTED
SOFT ORANGE	HLMP-K402	TINTED



### **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 (TA =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			



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ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)								
Part Number	HLMP-K600	HLMP-K640*	HLMP-K400	HLMP-K401	HLMP-K402	Condition		
Luminous Intensity (mcd)						$I_F = 10mA$		
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)						$I_F = 10mA$		
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	$I_F = 10mA$		
Spectral Line Half Width (nm)	24	24	40	40	40	$I_F = 10mA$		
Reverse Voltage (V)	5	5	5	5	5	$I_R = 100 \mu A$		
Viewing Angle (°)	90	45	90	90	90	I <sub>F</sub> = 10mA		

<sup>\*</sup> HLMP-K640 test condition is  $I_F = 20mA$ 



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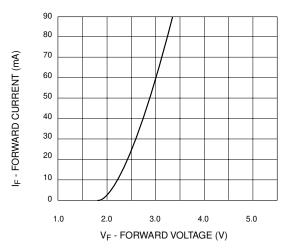


Fig. 1 Forward Current vs. Forward Voltage

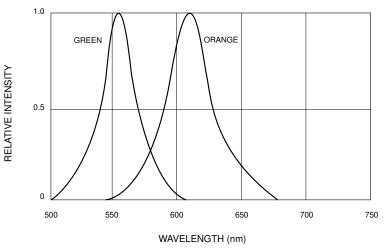
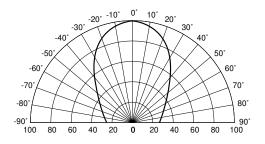


Fig. 3 Relative Intensity vs. Peak Wavelength



REL. LUMINOUS INTENSITY (%)

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

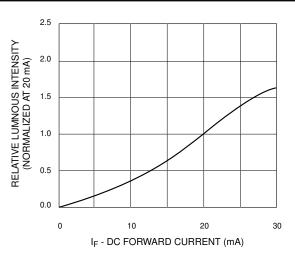


Fig. 2 Relative Luminous Intensity vs.
DC Forward Current

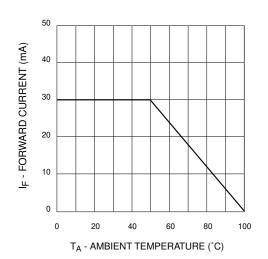
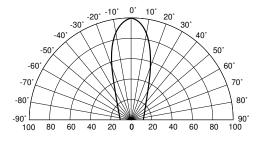


Fig. 4 Current Derating Curve



REL. LUMINOUS INTENSITY (%)

Fig. 5B Radiation Diagram (HLMP-K640)



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