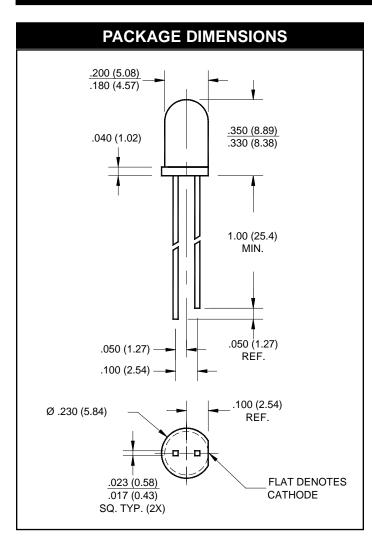
T-1 3/4 (5mm) SOLID STATE LAMPS

PURE GREEN	HLMP-D600	TINTED		
PURE GREEN	HLMP-D640	CLEAR		
SOFT ORANGE	HLMP-D400	TINTED		
SOFT ORANGE	HLMP-D401	TINTED		



FEATURES

- Popular T-1 3/4 package
- Low drive current
- Solid state reliability
- · Wide viewing angle
- Choice of pure green or soft orange colors



DESCRIPTION

These T-1 3/4 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. TOLERANCES ARE ±.010" INCH UNLESS SPECIFIED.
- AN EPOXY MENISCUS MAY EXTEND ABOUT .040" (1 mm) DOWN THE LEADS.

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			



T-1 3/4 (5mm) SOLID STATE LAMPS

ELECTRICAL / OPTICAL CHARACTERISTICS (TA =25°C)						
Part Number	HLMP-D600	HLMP-D640*	HLMP-D400	HLMP-D401	Condition	
Luminous Intensity (mcd)					$I_F = 10mA$	
Minimum	1.0	6.7	2.1	4.0		
Typical	3.0	6.0	3.5	7.0		
Forward Voltage (V)					$I_F = 10mA$	
Maximum	2.7	3.0	2.4	2.4		
Typical	2.1	2.2	1.9	1.9		
Peak Wavelength (nm)	555	555	612	612	$I_F = 10mA$	
Spectral Line Half Width (nm)	24	24	40	40	$I_F = 10mA$	
Reverse Voltage (V)	5	5	5	5	$I_{R} = 100 \mu A$	
Viewing Angle (°)	60	24	60	60	I _F = 10mA	

^{*} HLMP-D640 test condition is $I_F = 20 \text{mA}$



T-1 3/4 (5mm) SOLID STATE LAMPS



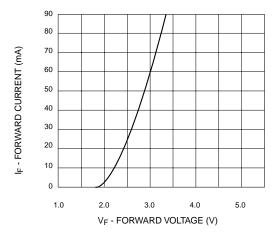


Fig. 1 Forward Current vs. Forward Voltage

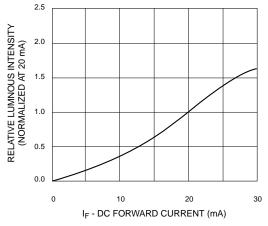


Fig. 2 Relative Luminous Intensity vs.
DC Forward Current

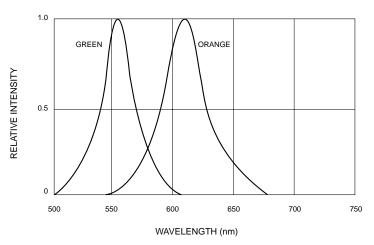


Fig. 3 Relative Intensity vs. Peak Wavelength

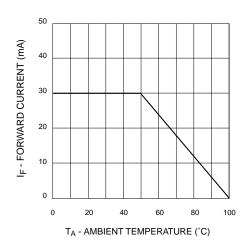
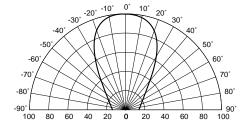
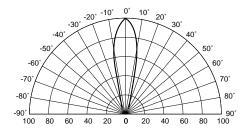


Fig. 4 Current Derating Curve



REL. LUMINOUS INTENSITY (%)

Fig. 5A Radiation Diagram
(HLMP-D600, HLMP-D400, HLMP-D401)



REL. LUMINOUS INTENSITY (%)
Fig. 5B Radiation Diagram
(HLMP-D640)



T-1 3/4 (5mm) SOLID STATE LAMPS

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