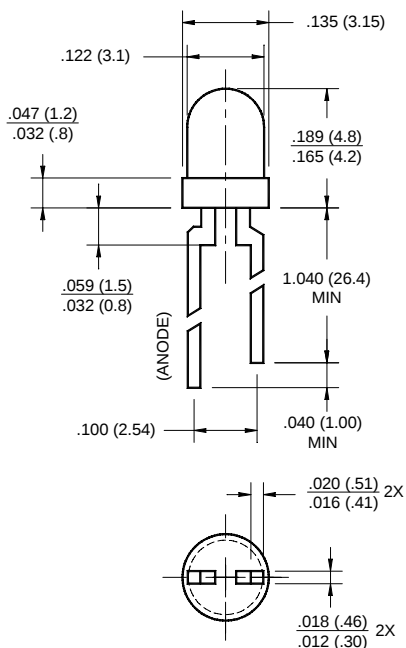


T-1 3/4 (5mm)
HLMP-D150A
Red Diffused
T-100 (3mm)
HLMP-D155A
Red Clear with Standoff
HLMP-K150
Red Diffused
HLMP-K155
Red Clear

PACKAGE DIMENSIONS


HLMP-K150/K155

FEATURES

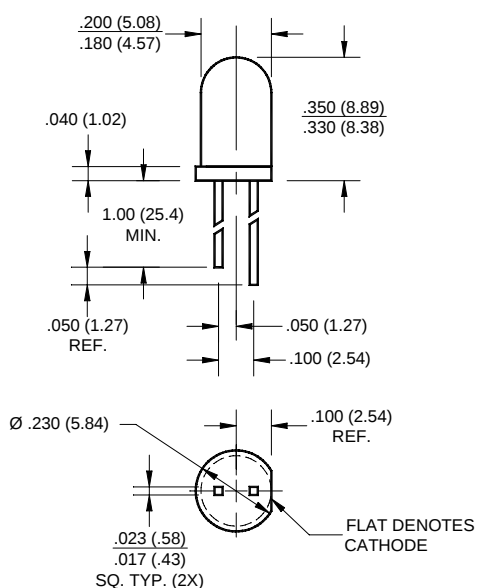
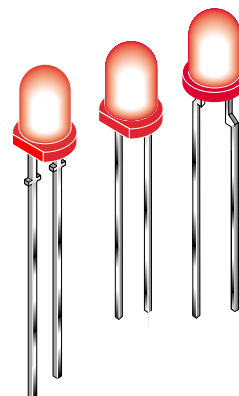
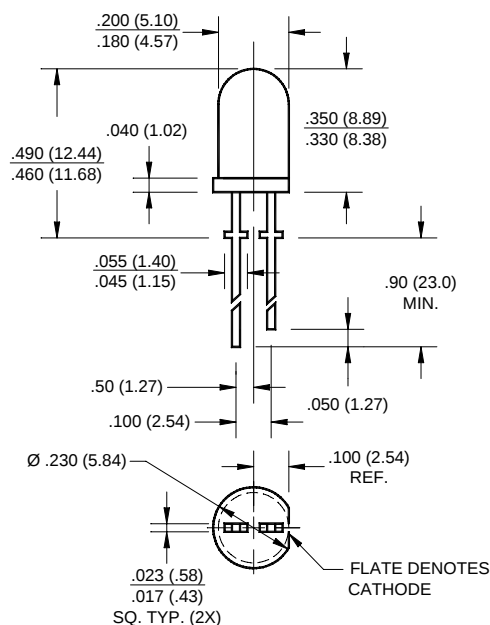
- Wide Viewing Angle
- Deep Red Color

DESCRIPTION

Exceptional light output typifies these devices and provides for their use over a broad range of drive currents. The LED material is based on double heterojunction (DH) AlGaAs/GaAs technology.

NOTES:

1. ALL DIMENSIONS ARE IN INCHES (mm).
2. TOLERANCE ARE $\pm .010$ " UNLESS OTHERWISE SPECIFIED.
3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040"(1 mm) DOWN THE LEADS.


HLMP-D150A

HLMP-D155A

DOUBLE HETEROJUNCTION AlGaAs LOW CURRENT RED LED LAMPS

ABSOLUTE MAXIMUM RATING (T_A =25°C)

Parameter	RED	UNITS
Power Dissipation	87	mW
Peak Forward Current (f=1kHz, DF=10%)	300	mA
Continuous DC Forward Current	30	mA
Lead Soldering Time at 260° C	5	sec
Operating Temperature	-20 to +100	°C
Storage Temperature	-55 to +100	°C

ELECTRICAL / OPTICAL CHARACTERISTICS (T_A =25°C)

Parameter	HLMP-K150	HLMP-K155	HLMP-D150A	HLMP-D155A	Condition
Luminous Intensity (mcd)					I _F = 1mA
Minimum	1.2	2.0	1.2	3.0	
Typical	2.0	3.0	3.0	10.0	
Forward Voltage (V)					I _F = 1mA
Maximum	1.8	1.8	1.8	1.8	
Typical	1.6	1.6	1.6	1.6	
Peak Wavelength (nm)	660	660	660	660	I _F = 1mA
Spectral Line Half Width	20	20	20	20	I _F = 1mA
Reverse Voltage (V)	5	5	5	5	I _R = 100μA
Viewing Angle (°)	60	45	65	24	I _F = 1mA

TYPICAL PERFORMANCE CURVES ($T_A = 25^\circ\text{C}$)

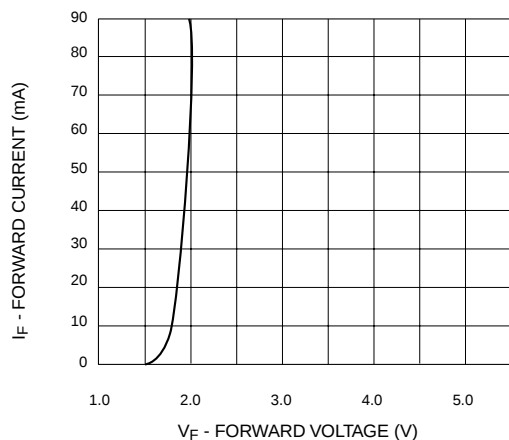


Fig. 1 Forward Current vs. Forward Voltage

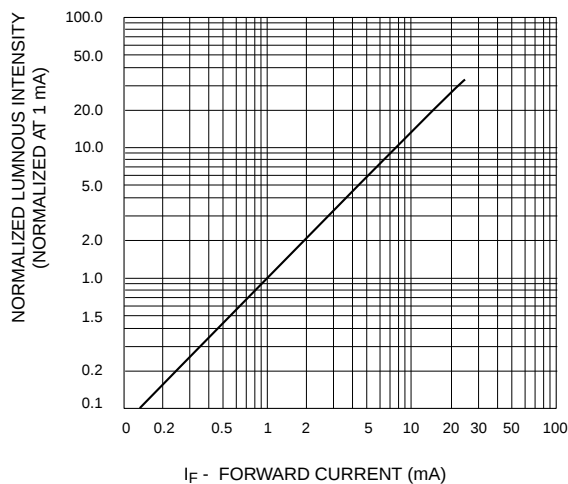


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

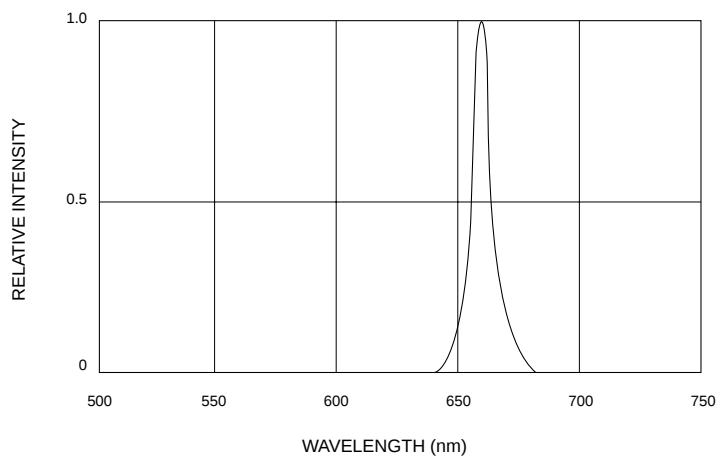


Fig. 3 Relative Intensity vs. Peak Wavelength

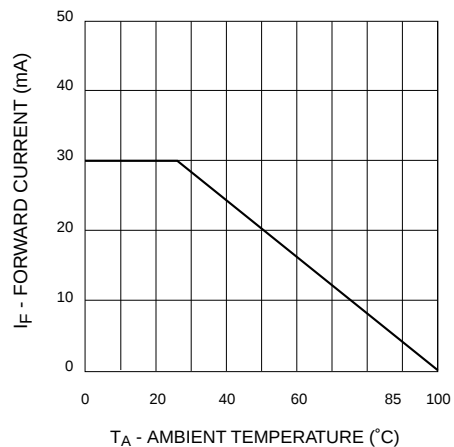
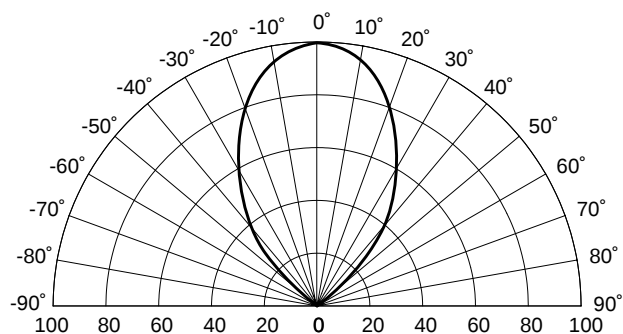


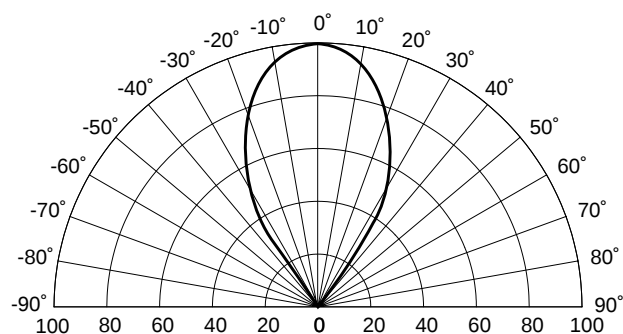
Fig. 4 Current Derating Curve

TYPICAL PERFORMANCE CURVES ($T_A = 25^\circ\text{C}$)



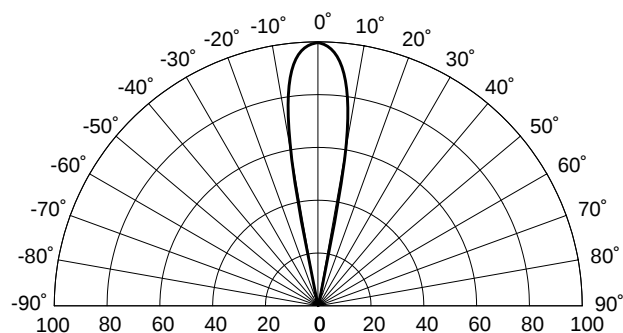
REL. LUMINOUS INTENSITY (%)

Fig. 5A Radiation Diagram (HLMP-D150A)



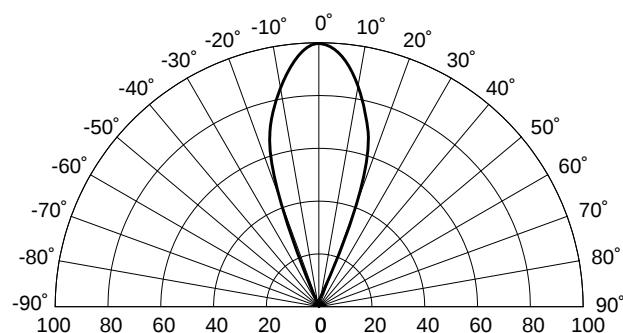
REL. LUMINOUS INTENSITY (%)

Fig. 5B Radiation Diagram (HLMP-K150)



REL. LUMINOUS INTENSITY (%)

Fig. 5C Radiation Diagram (HLMP-D155A)



REL. LUMINOUS INTENSITY (%)

Fig. 5D Radiation Diagram (HLMP-K155)

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2. A critical component in any component of a life support device or system whose failure to perform can be reasonably expected to cause the failure of the life support device or system, or to affect its safety or effectiveness.