



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

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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DOUBLE HETEROJUNCTION AlGaAs LOW CURRENT RED LED LAMPS

T-1 3/4 (5mm)

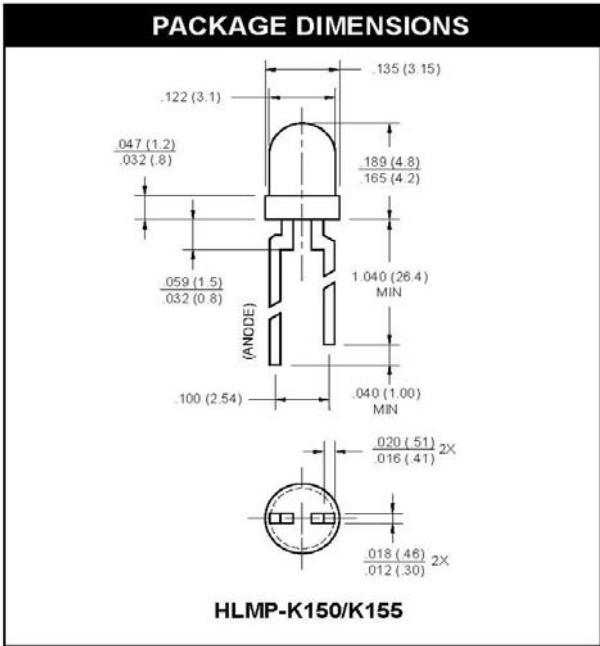
HLMP-D150A
HLMP-D155A

Red Diffused
Red Clear with Standoff

T-100 (3mm)

HLMP-K150
HLMP-K155

Red Diffused
Red Clear



FEATURES

- Wide Viewing Angle
- Deep Red Color

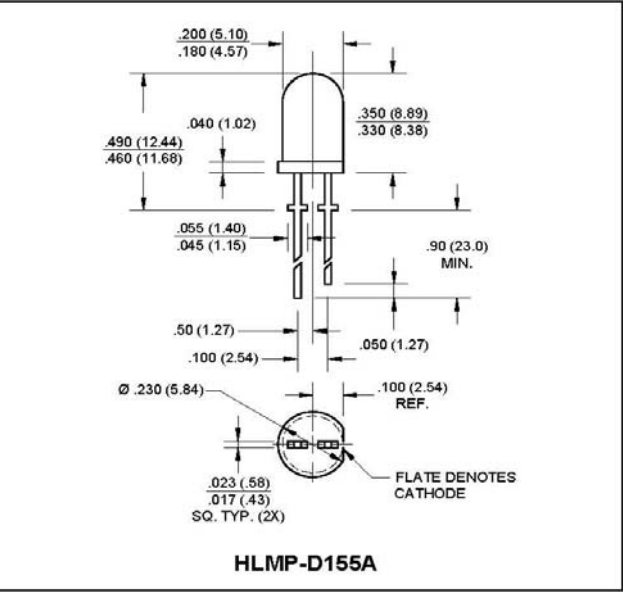
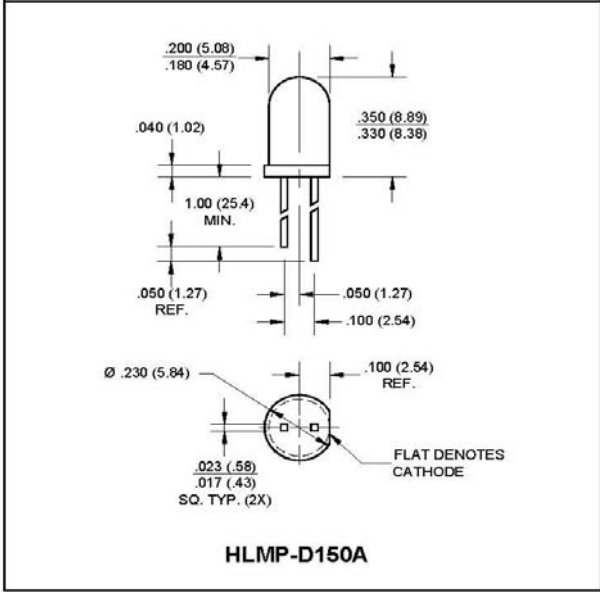


DESCRIPTION

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 ±.010" UNLESS OTHERWISE SPECIFIED.
3. AN EPOXY MENISCUS MAY EXTEND ABOUT .040"(1 mm) DOWN THE LEADS.





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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



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

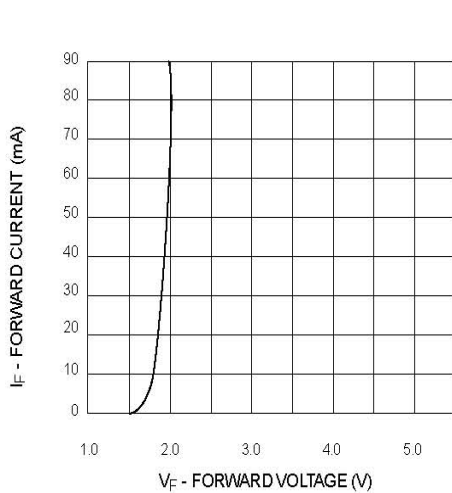


Fig. 1 Forward Current vs. Forward Voltage

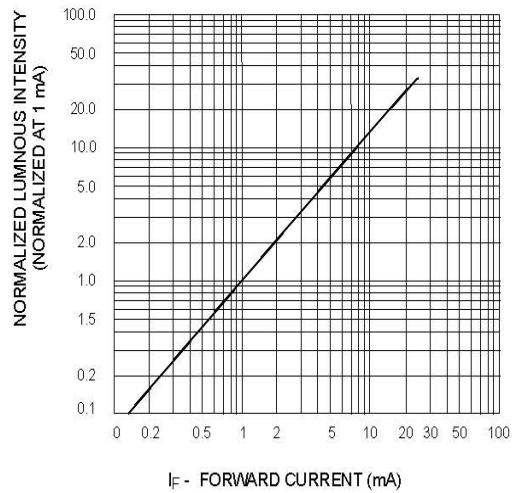


Fig. 2 Relative Luminous Intensity vs. DC Forward Current

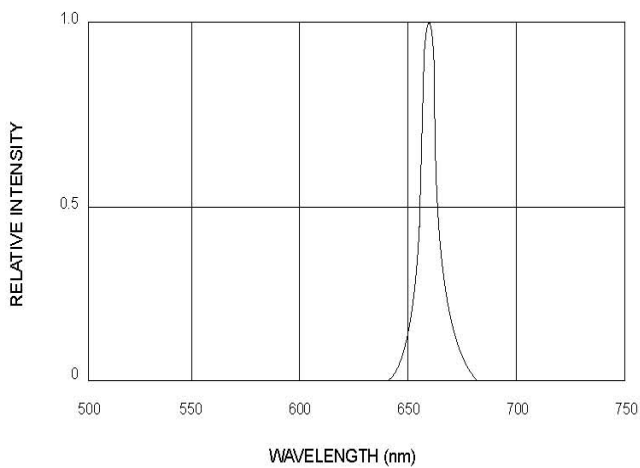


Fig. 3 Relative Intensity vs. Peak Wavelength

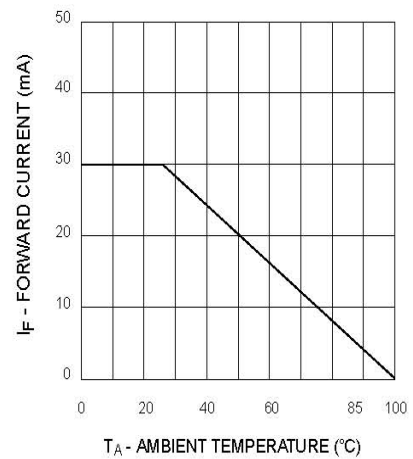
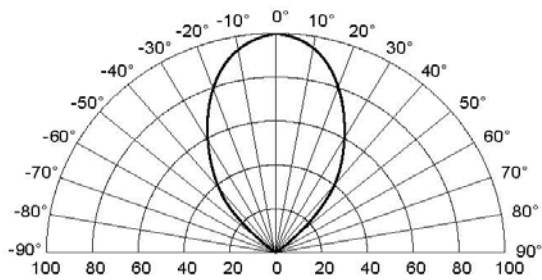


Fig. 4 Current Derating Curve

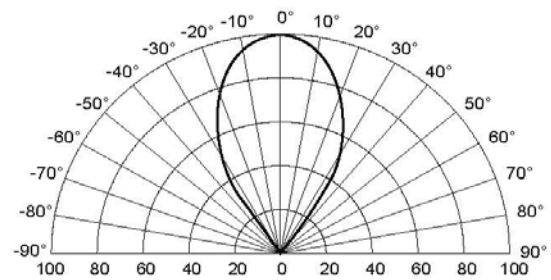


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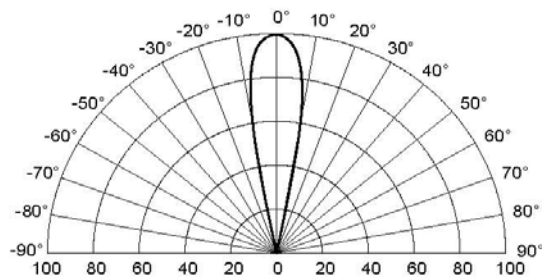
TYPICAL PERFORMANCE CURVES ($T_A = 25^\circ\text{C}$)



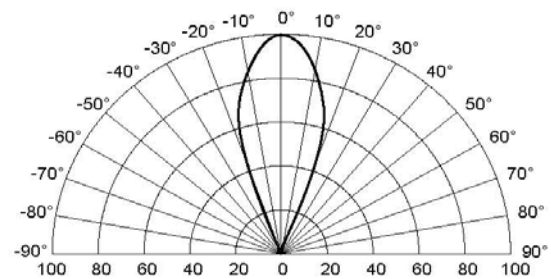
REL. LUMINOUS INTENSITY (%)
Fig. 5A Radiation Diagram (HLMP-D150A)



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 implant reasonably expected to cause the failure of the life and (c) device or system, or to affect its safety or effectiveness.