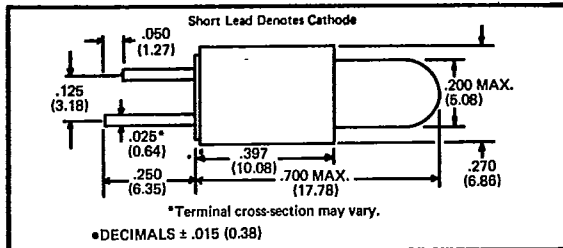




U.S. Pat. No. 4,358,708

High Brightness LED Bi-Pin Lamps

560 series



Maximum Ratings

DC Forward Voltage @ 25° C	120% Specified Operating Voltage
DC Forward Voltage @ 71° C	100% Specified Operating Voltage
Reverse Voltage	5.0V
Operating Temperature	-55° C to +71° C
Storage Temperature	-55° C to +100° C
Lead Soldering Temperature	230° C for 5 sec.

Features

- High Intensity Light Source
- Wide or Narrow Beam angle
- 3 Colors
- Integral current limiting resistors for a range of operating points
- Package provides positive seating and spacing of the light source to the PCB surface.

Applications

- Incandescent Lamp Replacement
- High Brightness Backlight
- PCB Mounted Indicator

Optical Characteristics

Parameter	560-010X	-020X	-030X	-040X	-050X	-060X
Peak Wavelength (nm)	635	565	585	635	635	585
Spectral line half width (nm)	45	35	35	45	35	35
Total Viewing Angle (degrees)	65			28		
Typical Luminous Intensity	See figures 1&3					

Operating Characteristics at 25° C

Parameter	560-0X01	-0X02	-0X03	-0X04	-0X05	-0X06	-0X07	-0X08
Operating Voltage (V)	current limiting required	3.6	5	6	10	12	14	24
Forward Current (mA)	typ.	—	18	19	17	17	18	15
	max.	35†	25	25	25	20	21	20
R(Ω)	—	82	150	220	470	560	649	1,470

† Absolute maximum @ 25° C, derate linearly to 20 mA @ 71° C

560-0603

LED Color & Transmittance

01	Red	Diffused (Wide Angle)
02	Green	
03	Yellow	
04	Red	Non-Diffused* (Narrow Angle)
05	Green	
06	Yellow	

Typical Operating Voltage

01	No integral Resistor
02	3.6V
03	5.0V
04	6.0V
05	10.0V
06	12.0V
07	14.0V
08	24.0V

* The narrow angle, non-diffused versions are suggested for backlighting applications.

Dialight reserves the right to make changes at anytime in order to improve design and to supply the best product possible.

High Brightness LED Bi-Pin Lamps 560 series

Lamps with Non-Diffused Lens

Fig. 1

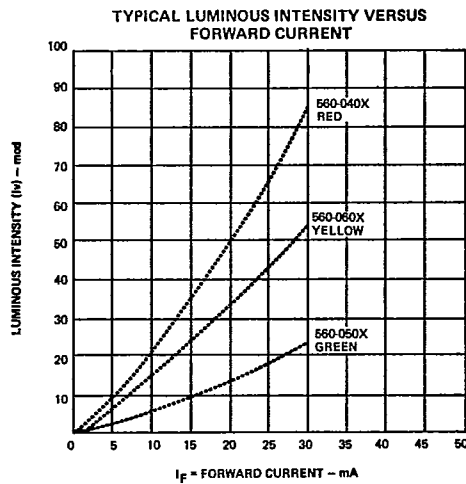
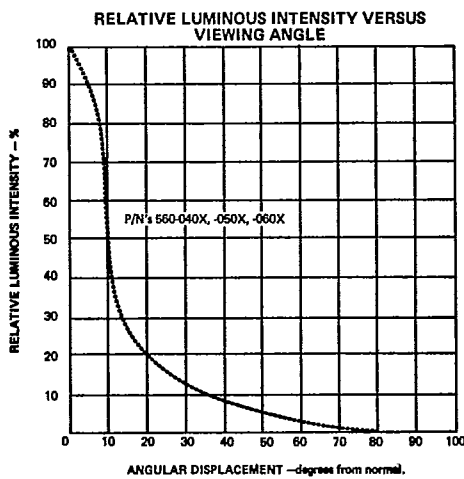


Fig. 2



Lamps with Diffused Lens

Fig. 3

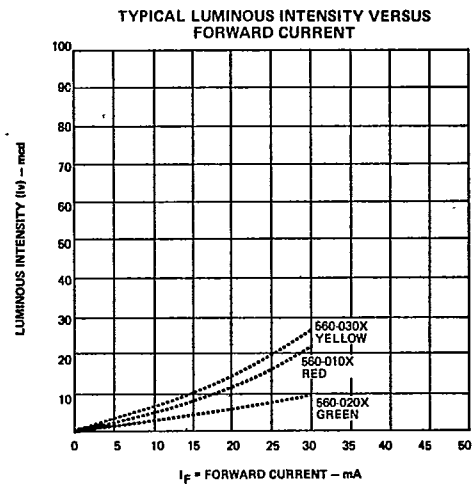
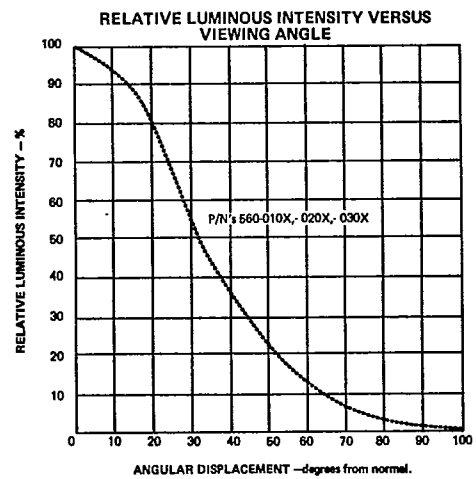


Fig. 4



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[LAPD-1W](#) [LAPD-6R](#) [560-0104F](#) [585-1113](#) [SSP-LXC1283S24](#) [SSP-3MB96U12G](#) [SLL-05EY](#) [1.90.690.684/0000](#) [560-0203F](#) [586-2206-](#)
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