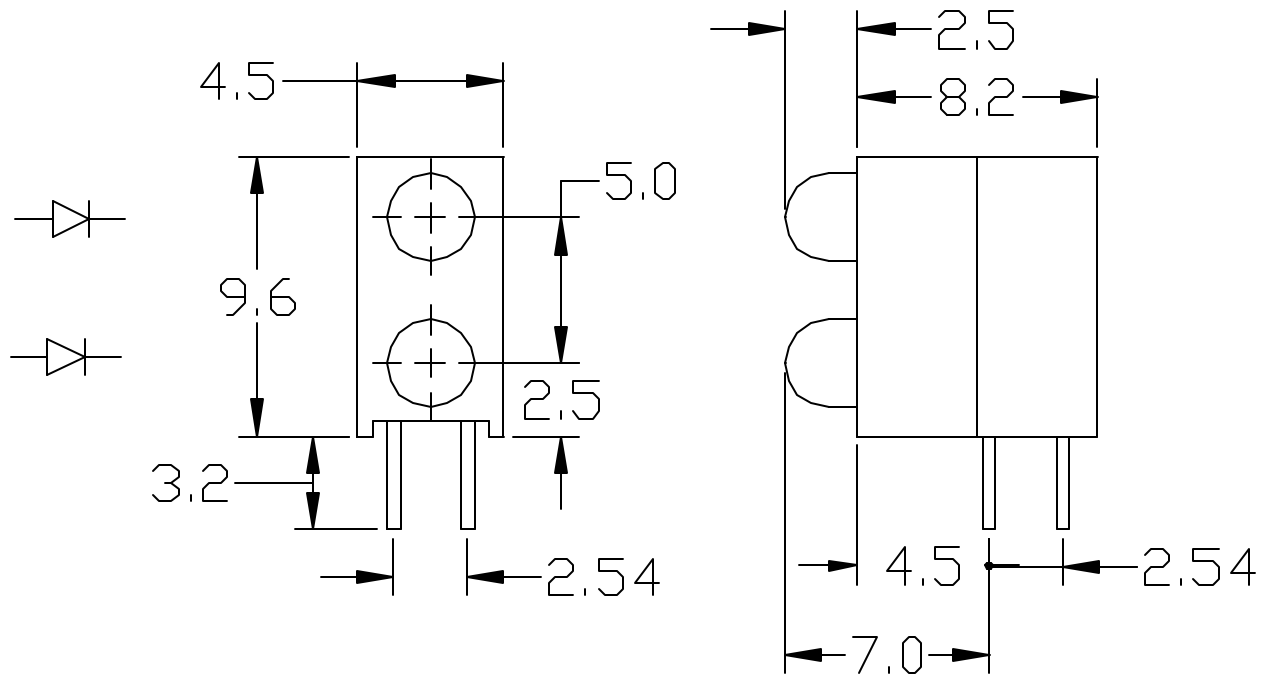


**PACKAGE DIMENSION:**



1. ALL DIMENSIONS  $\pm 0.25$ mm UNLESS OTHERWISE NOTED.
2. COLOR COMBINATION AS CUSTOMER'S REQUIREMENT.
3. HOLDER COLOR:BLACK
4. HOLDER MATERIAL MEETS UL94V-2

**Absolute Maximum Ratings at Ta=25?**

Parameter	MAX.	Unit
Power Dissipation	100	mW
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pluse Width)	100	mA
Continuous Forward Current	50	mA
Derating Linear From 50?	0.4	mA/?
Reverse Voltage	5	V
Operating Temperature Range	-40? to +80?	
Storage Temperature Range	-40? to +80?	
Lead Soldering Temperature [4mm(.154") From Body]	260? for 5 Seconds	

**Electrical Optical Characteristics at Ta=25?**

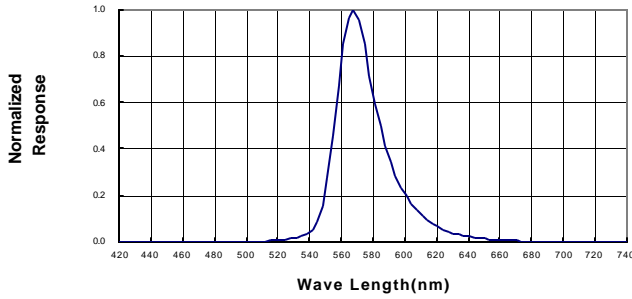
Parameter	Symbol	Emitting Color	Mi n.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I <sub>v</sub>	Green	20	42	90	mcd	I <sub>F</sub> =20mA
	I <sub>v</sub>	Red	25	50	110		Note 1
Viewing Angle	2? <sup>1/2</sup>	Green	52	60	68	Deg	Note 2
	2? <sup>1/2</sup>	Red	45	50	55		
Peak Emission	? p	Green	563	568	573	nm	I <sub>F</sub> =20mA
Wavelength	? p	Red	639	644	649		
Dominant Wavelength	? d	Green	565	571	576	nm	I <sub>F</sub> =20mA
	? d	Red	625	630	635		Note 3
Spectral Line	? ?	Green	24	29	34	nm	I <sub>F</sub> =20mA
Half-Width	? ?	Red	35	40	45		
Forward Voltage	V <sub>F</sub>	Green	1.7	2.2	2.6	V	I <sub>F</sub> =20mA
	V <sub>F</sub>	Red	1.7	2.0	2.6		
Reverse Current	I <sub>R</sub>	Green	---	---	100	μA	V <sub>R</sub> =5V
	I <sub>R</sub>	Red					

**Note:**

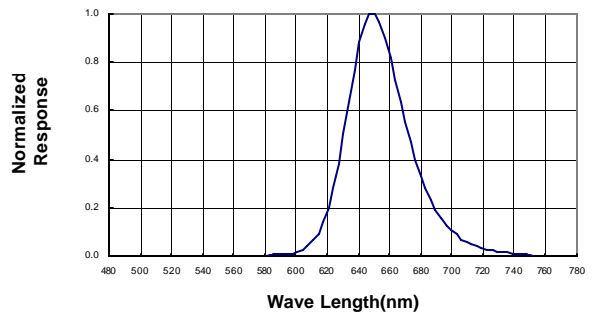
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
  2. ? <sup>1/2</sup> is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
  3. The dominant wavelength (? d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device
-

**Typical Electrical / Optical Characteristics Curves  
 (25° Ambient Temperature Unless Otherwise Noted)**

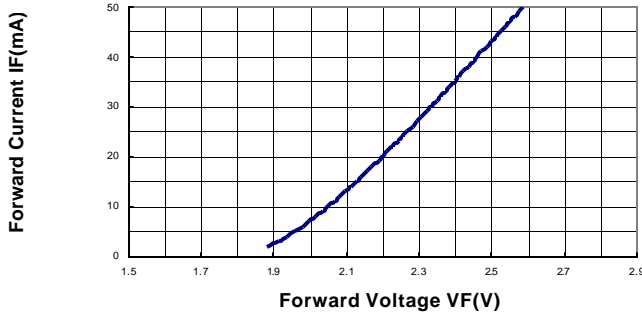
Spectral Radiance (Peak @ 568nm)



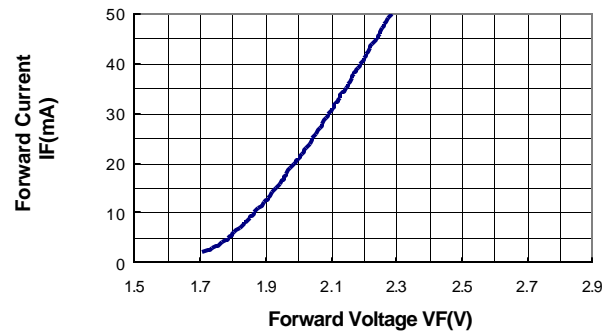
Spectral Radiance (Peak @ 644nm)



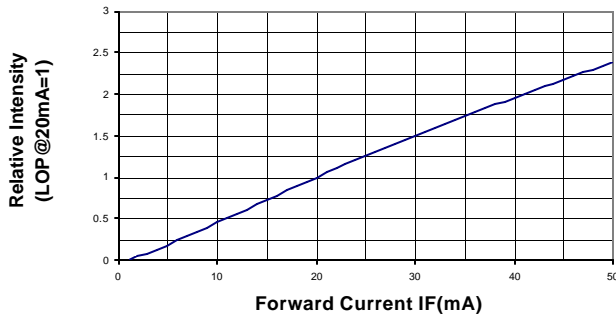
Forward Current vs Forward Voltage



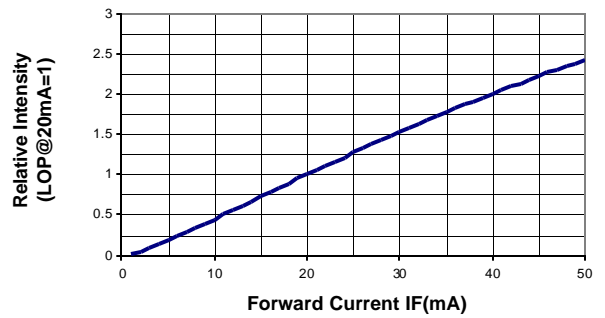
Forward Current vs Forward Voltage



Relative Luminous Intensity vs Forward Current



Relative Luminous Intensity vs Forward Current



Beam Patter

