



## Absolute Maximum Ratings

◆ (Ta=25°C)

Item	Power Dissipation	Forward Current	Perk Forward Current	Electric Static Discharge(HBM)	Reverse Voltage	Operation Temp.	Storage Temp.
Symbol(Units)	P <sub>D</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)	V	V <sub>R</sub> (V)	Top (°C)	Tstg (°C)
L-XXXXGCT	100	25	120	-	5	-40 °C ~ +85 °C	
L-XXXXECT	100	25	120	-			
L-XXXXYCT	60	20	80	-			
L-XXXXSRCT	100	25	120	-			
L-XXXXKGCT	60	30	60	2000			
L-XXXXKRCT	75	30	80	2000			
L-XXXXKFCT	75	30	80	2000			
L-XXXXKYCT	75	30	80	2000			
L-XXXXTBCT	100	25	100	150			
L-XXXXLBCT	100	25	100	150			

\* I<sub>FP</sub> is 1/10 duty cycle, 0.1 ms pulse width.

◆ (Ta=25°C)

Item	Power Dissipation	Forward Current	Perk Forward Current	Electric Static Discharge(HBM)	Reverse Voltage	Operation Temp.	Storage Temp.	
Symbol(Units)	P <sub>D</sub> (mW)	I <sub>F</sub> (mA)	I <sub>FP</sub> (mA)	V	V <sub>R</sub> (V)	Top (°C)	Tstg (°C)	
L-XXXGC-TR-X	55	20	100	-	5	-40 °C ~ +85 °C		
L-XXXEC-TR-X	80	30	120	-				
L-XXXYC-TR-X	50	20	100	-				
L-XXXSRC-TR-X	50	20	100	-				
L-XXXLGC-TR-X	75	30	100	2000				
L-XXXVGC-TR-X	50	20	100	2000				
L-XXXLRC-TR-X	75	30	60	2000				
L-XXXURC-TR-X	50	20	120	2000				
L-XXXLYC-TR-X	50	20	100	2000				
L-XXXUYC-TR-X	80	30	80	2000				
L-XXXLBC-TR-X	90	20	100	400				
L-XXXUBC-TR-X	90	20	100	400				
L-XXXLPGC-TR-X	105	20	100	400				
L-XXXSRVGC-TR-X	SR	50	20	100				-
	VG	50	20	100				2000
L-XXXURVGC-TR-X	UR	50	20	120	2000			
	VG	50	20	100	2000			

\* I<sub>FP</sub> is 1/10 duty cycle, 0.1 ms pulse width.

## Typical Electro-Optical Characteristics Curves

### Relative Intensity vs. Wavelength

(25°C Ambient Temperature Unless Otherwise Noted)

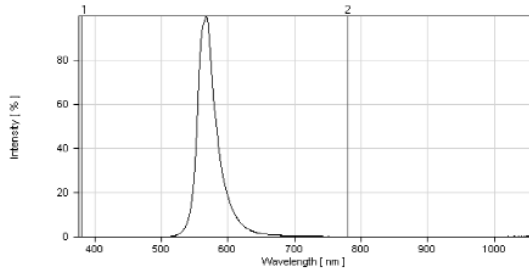


Fig.1 Green

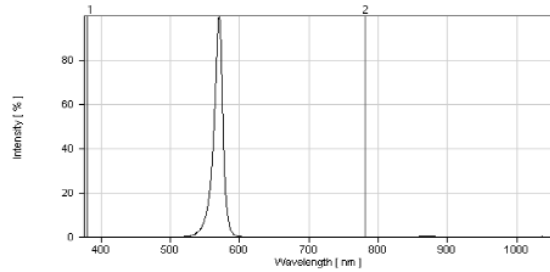


Fig.2 Super Green

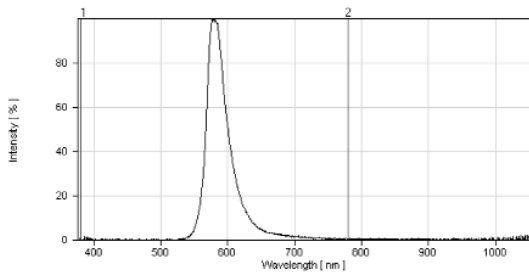


Fig.3 Yellow

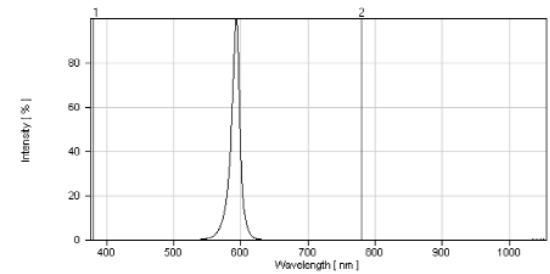


Fig.4 Super Yellow

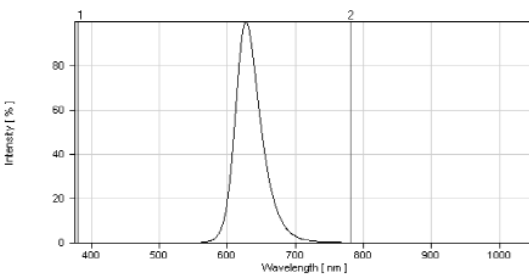


Fig.5 Orange

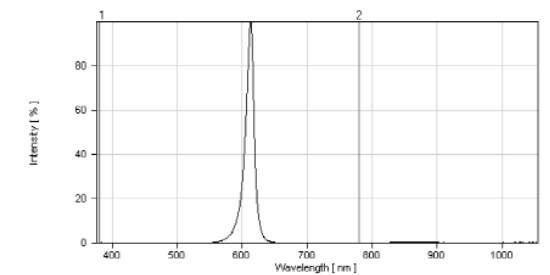


Fig.6 Super Amber

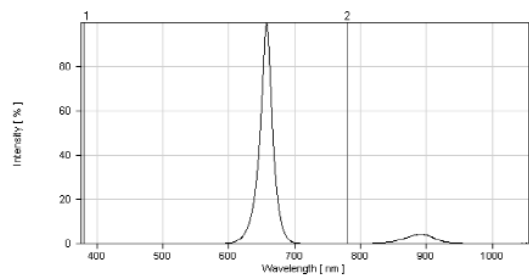


Fig.7 Red

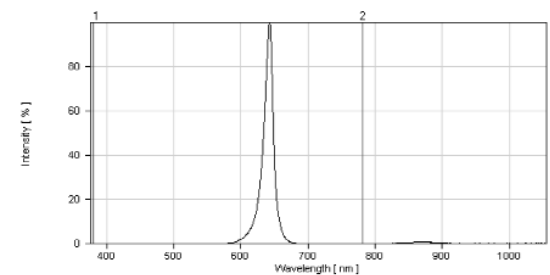


Fig.8 Super Red

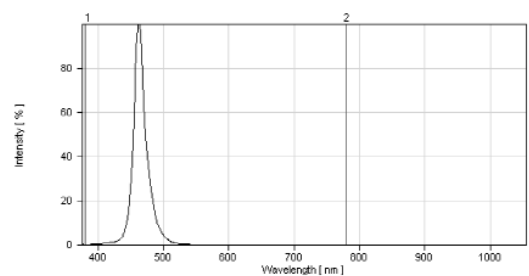


Fig.9 Blue



**G(Green): GaP**  
**Y(Yellow): GaAsP/GaP**  
**E(Orange): GaAsP/GaP**  
**SR(Red): GaAlAs** (Typical Electro-Optical Characteristics Curves)

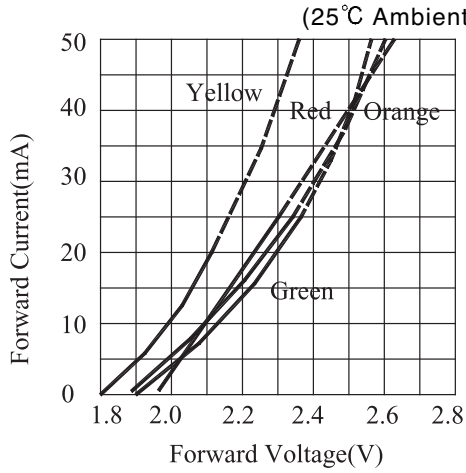


Fig.1 Forward Current vs. Forward Voltage

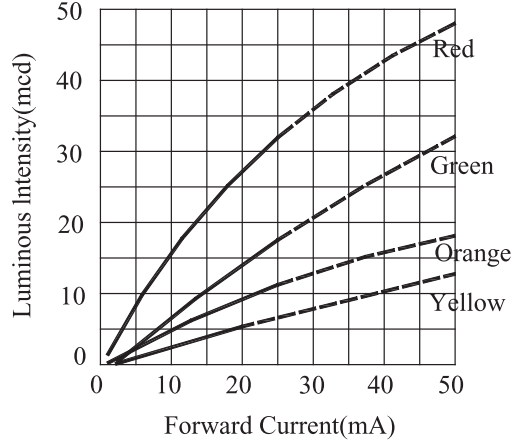


Fig.2 Luminous Intensity vs. Forward Current

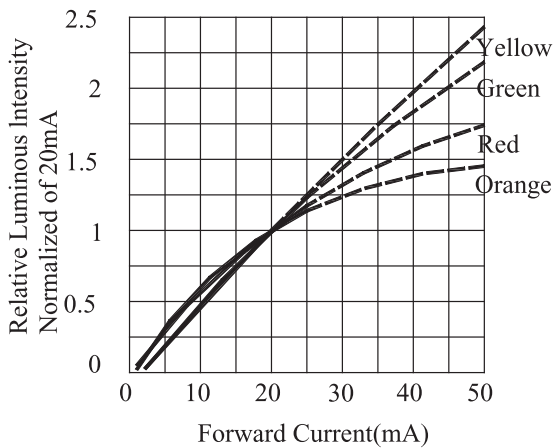


Fig.3 Relative Luminous Intensity vs. Forward Current

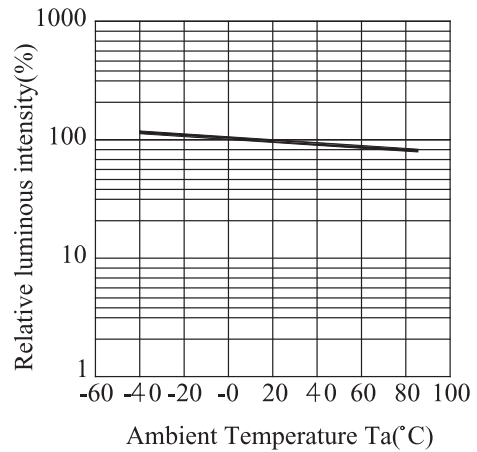


Fig.4 Luminous Intensity vs. Ambient Temperature

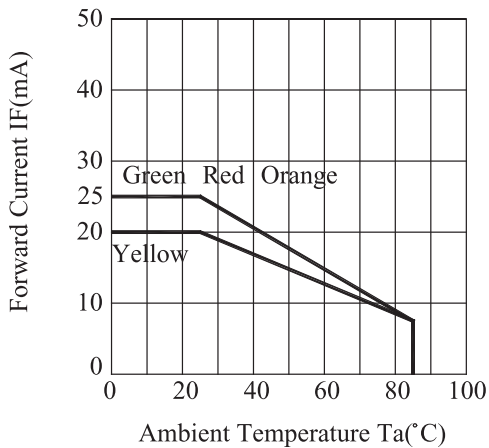


Fig.5 Forward Current Derating Curve

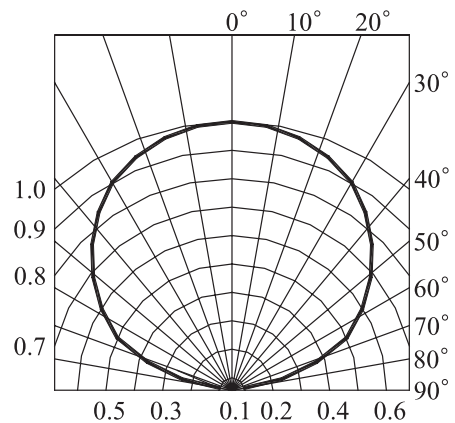


Fig.6 Relative Intensity vs. Angle



**XG(Green): AllnGaP**  
**XY(Yellow): AllnGaP**  
**XF(Amber): AllnGaP**  
**XE(Orange): AllnGaP**  
**XR(Red) : AllnGaP**

(Typical Electro-Optical Characteristics Curves)

(25°C Ambient Temperature Unless Otherwise Noted)

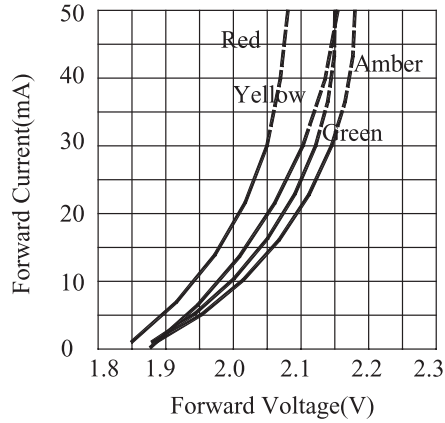


Fig.1 Forward Current vs. Forward Voltage

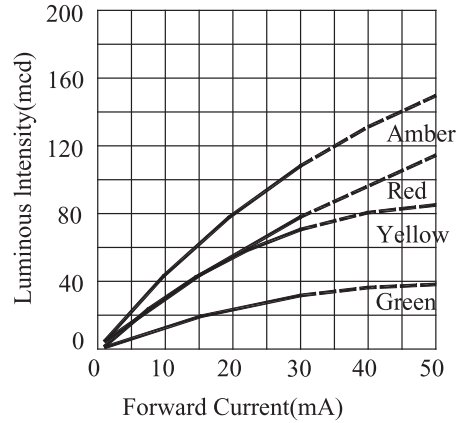


Fig.2 Luminous Intensity vs. Forward Current

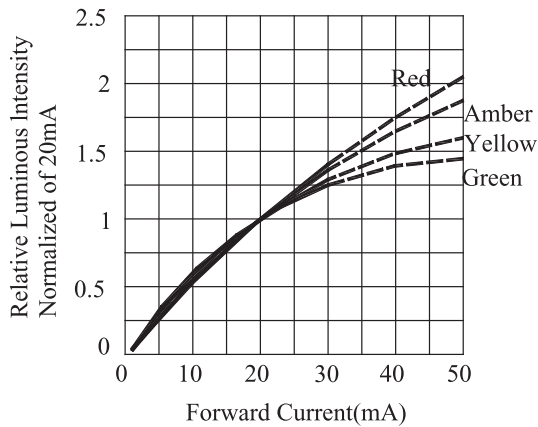


Fig.3 Relative Luminous Intensity vs. Forward Current

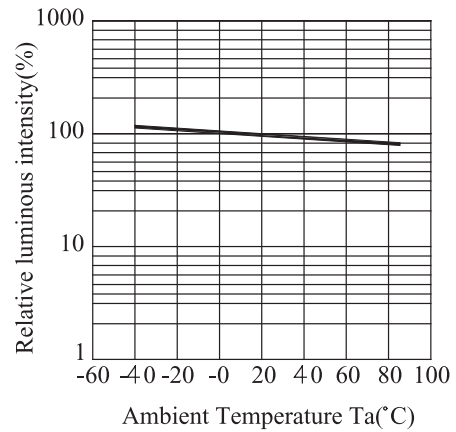


Fig.4 Luminous Intensity vs. Ambient Temperature

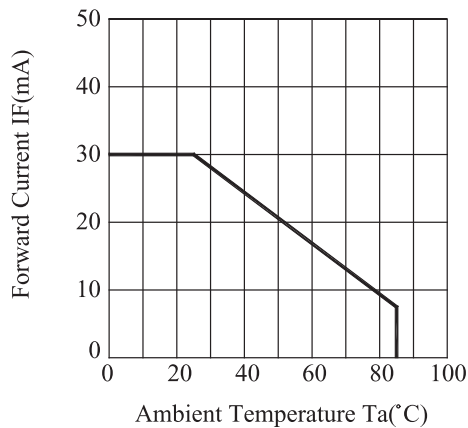


Fig.5 Forward Current Derating Curve

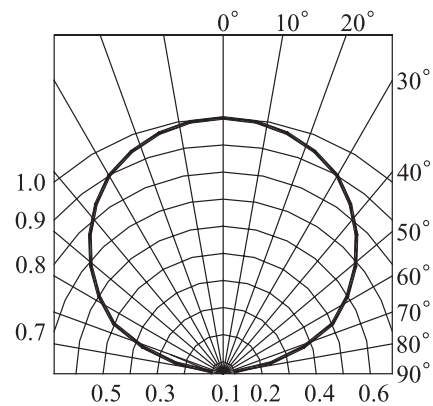


Fig.6 Relative Intensity vs. Angle

(25°C Ambient Temperature Unless Otherwise Noted)

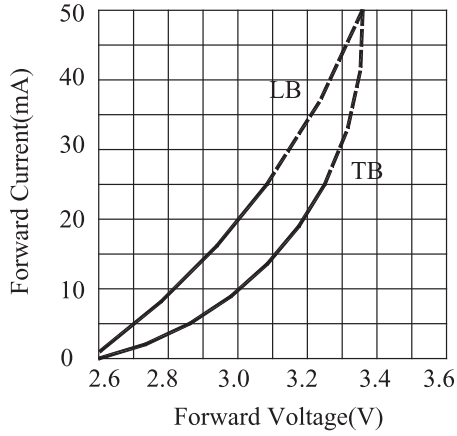


Fig.1 Forward Current vs. Forward Voltage

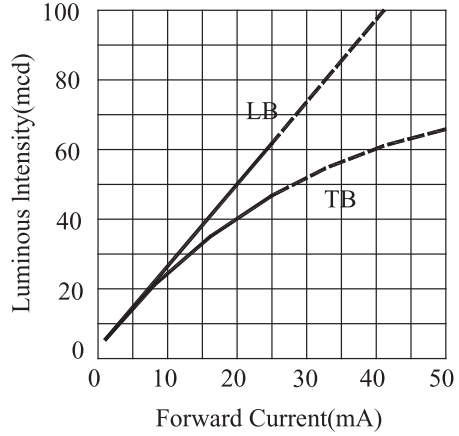


Fig.2 Luminous Intensity vs. Forward Current

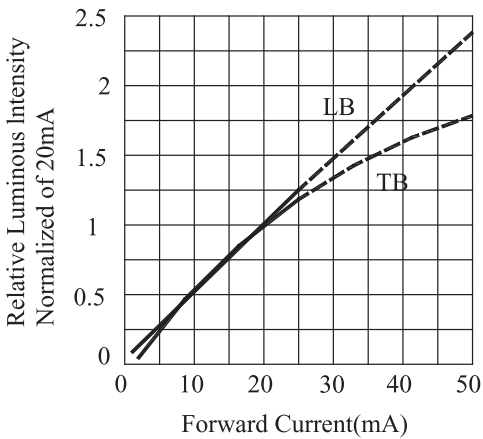


Fig.3 Relative Luminous Intensity vs. Forward Current

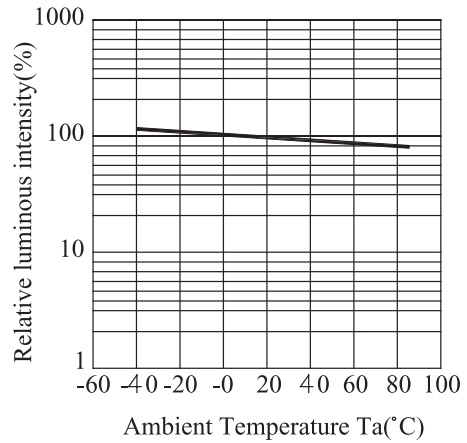


Fig.4 Luminous Intensity vs. Ambient Temperature

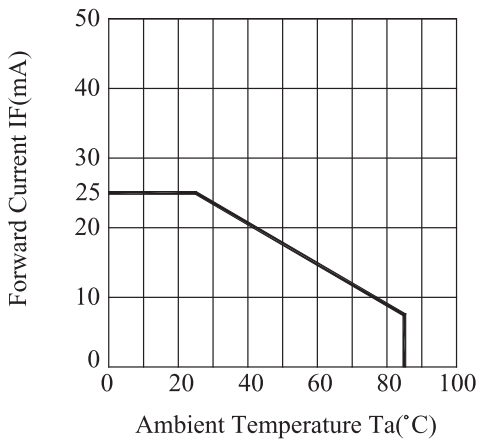


Fig.5 Forward Current Derating Curve

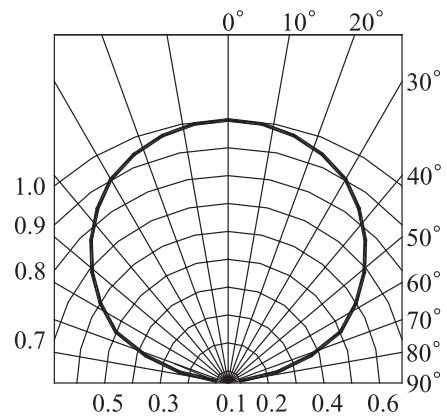


Fig.6 Relative Intensity vs. Angle