



## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 20mA		Viewing Angle
			Min.	Typ.	2θ1/2
L-154A4SUREPBGVGC	HYPER RED (InGaAlP)	WATER CLEAR	650	1300	50°
	BLUE (InGaN)		280	800	
	GREEN (InGaN)		480	1200	

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at TA=25°C

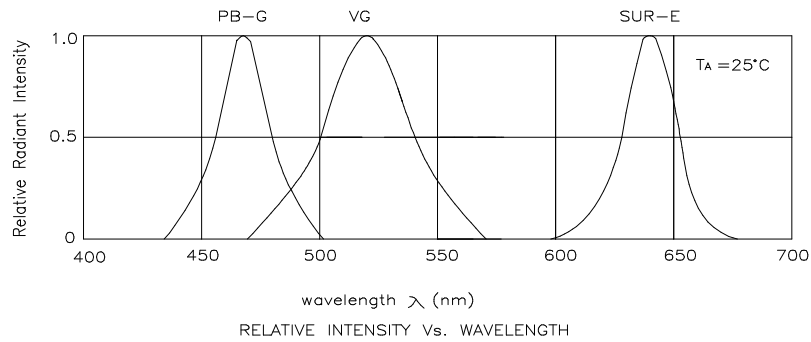
Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
λpeak	Peak Wavelength	Hyper Red Blue Green	640 468 520		nm	IF=20mA
λD	Dominant Wavelength	Hyper Red Blue Green	630 470 525		nm	IF=20mA
Δλ1/2	Spectral Line Half-width	Hyper Red Blue Green	25 26 38		nm	IF=20mA
C	Capacitance	Hyper Red Blue Green	45 110 45		pF	VF=0V;f=1MHz
VF	Forward Voltage	Hyper Red Blue Green	1.9 3.6 3.5	2.5 4.3 4.5	V	IF=20mA
IR	Reverse Current	Hyper Red Blue Green		10 10 10	uA	VR = 5V

## Absolute Maximum Ratings at TA=25°C

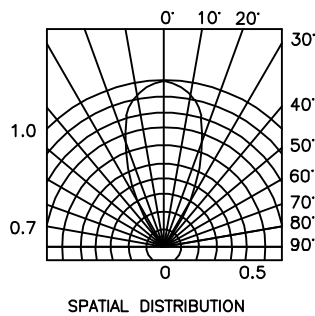
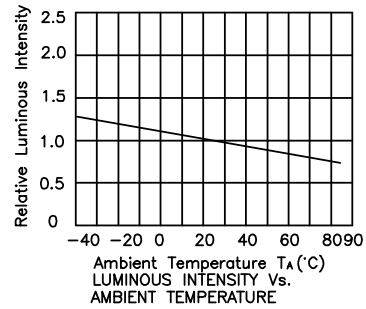
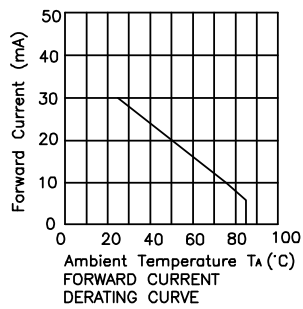
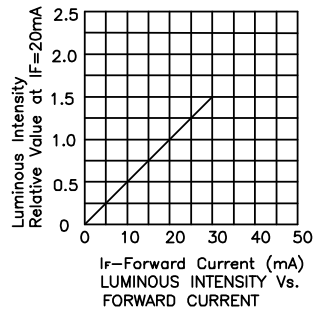
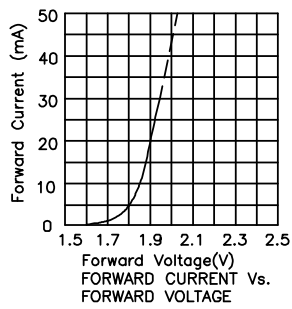
Parameter	Hyper Red	Blue	Green	Units
Power dissipation	150	102	105	mW
DC Forward Current	30	30	30	mA
Peak Forward Current [1]	200	150	150	mA
Reverse Voltage	5			V
Operating/Storage Temperature	-40°C TO +85°C			
Lead Solder Temperature [2]	260°C For 3 Seconds			
Lead Solder Temperature [3]	260°C For 5 Seconds			

Notes:

1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. 2mm below package base.
3. 5mm below package base.

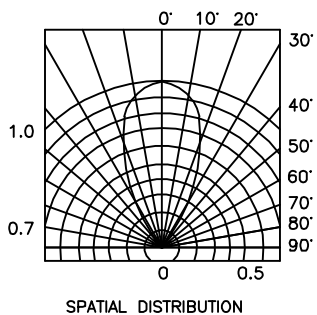
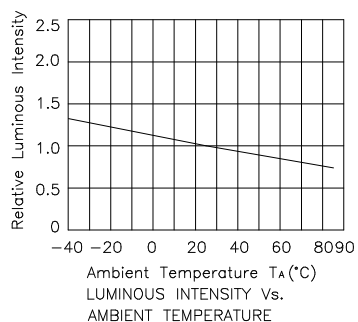
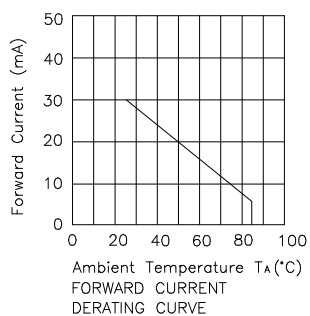
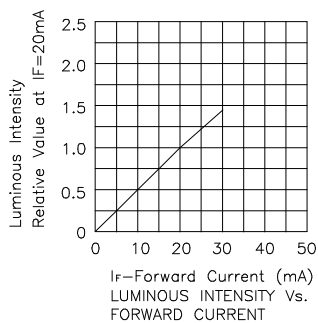
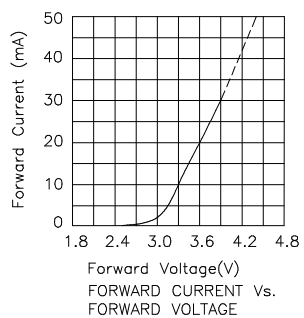


## L-154A4SUREPBGVGC Hyper Red

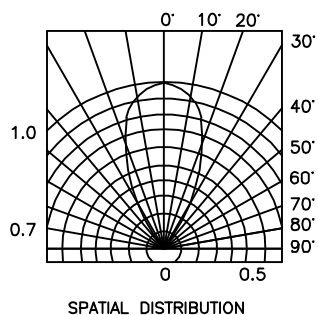
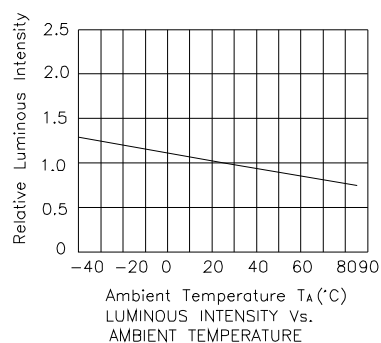
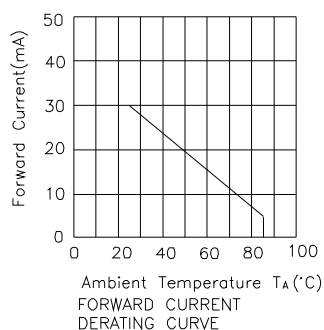
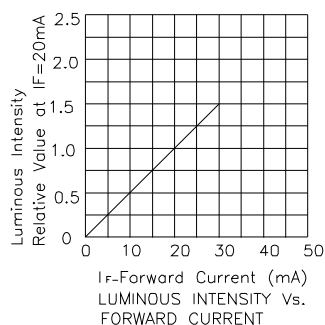
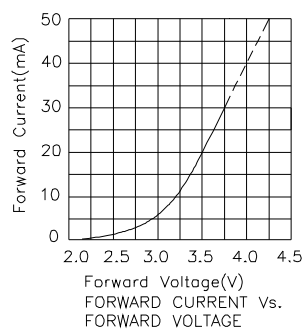


# Kingbright

## Blue



## Green



### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity/ luminous flux or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: +/-1nm
2. Luminous Intensity/ Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.