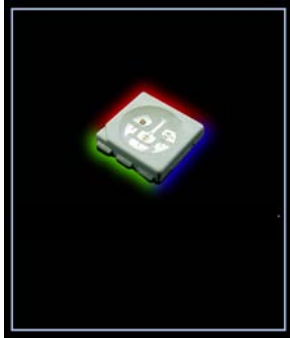


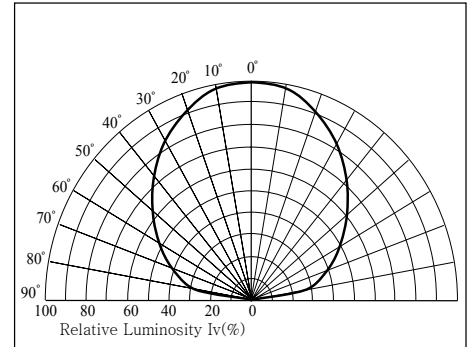
5050 FULL color : RGB

Feature



- Full color possibility
- 5.0 × 5.0 × 1.5 mm Package
- Wide Viewing Angle
- High Intensity
- General Purpose Leads

Radiation Characteristics (Ta = 25°C)



Absolute Maximum Ratings (Ta = 25°C)

Item	Symbol	Value			Unit
		Red	Green	Blue	
Power Dissipation	P _D	120	150		mW
Forward Current	I _F	30	30		mA
Peak Forward Current ♦	I _{FP}	100			mA
Reverse Voltage	V _R	5			V
Operating Temperature	T _{opr}	-30 to +85			°C
Storage Temperature	T _{stg}	-40 to +100			°C
Soldering Temperature	T _{sol}	Reflow Soldering : 240 , 10 sec			°C

Luminous Intensity (mcd) (Ta=25°C)

Rank	I _V (I _F =20mA)					
	Red		Green		Blue	
	Min	Max	Min	Max	Min	Max
A	400	500	600	700	200	250
B	500	600	700	800	250	300
C	-	-	-	-	-	-
D	-	-	-	-	-	-
E	-	-	-	-	-	-
F	-	-	-	-	-	-

♦ Duty Ratio ≤ 1/10, Pulse Width ≤ 10msec.

Electrical-Optical Characteristics (Ta=25°C)

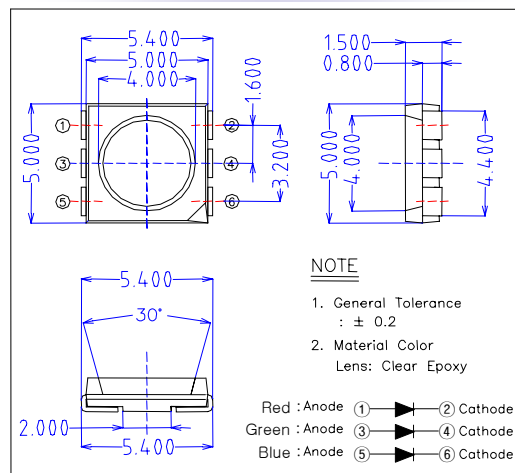
Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward voltage	V _F	I _F = 20 mA	Please refer to rank table			V
Reverse current	I _R	V _R = 5 V	-	-	10	μA
Luminous intensity ■	I _v	I _F = 20 mA	Please refer to rank table			mcd
Viewing angle	2θ _{1/2}	I _F = 20 mA	100	120	140	deg
Dominant wavelength	W _d	I _F = 20 mA	Please refer to rank table			nm

Forward Voltage (V) (Ta=25°C)

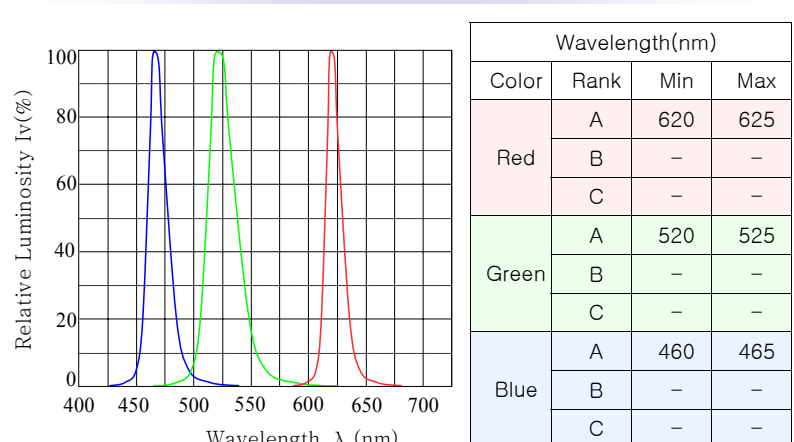
Rank	V _F (I _F =20mA)					
	Red		Green		Blue	
	Min	Max	Min	Max	Min	Max
A	2.0	2.2	3.0	3.2	3.0	3.2
B	-	-	3.2	3.4	3.2	3.4
C	-	-	-	-	-	-
D	-	-	-	-	-	-

■ Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

Outline Dimensions (Unit:mm)



Wavelength characteristics (Ta=25°C)



5050 FULL color : RGB

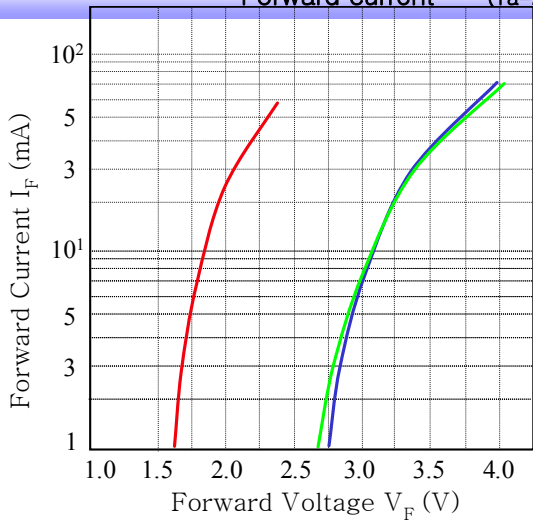
LINE INDEX

- SHAPE Emitting color
- Red
- Green

- SHAPE Emitting color
- Blue

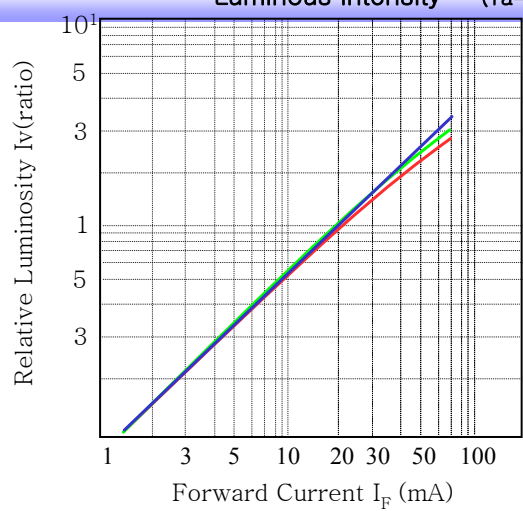
Forward voltage vs

Forward current (Ta=25°C)



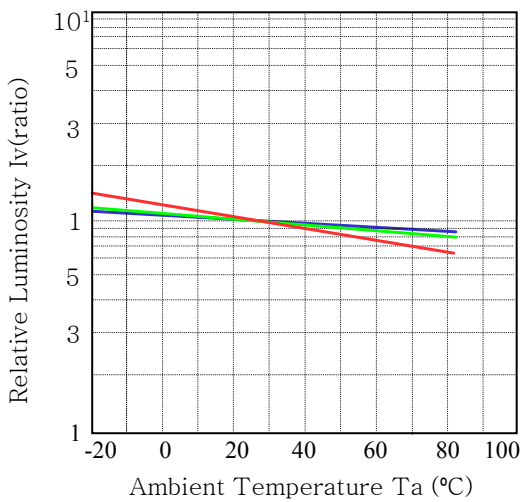
Forward current vs

Luminous intensity (Ta=25°C)



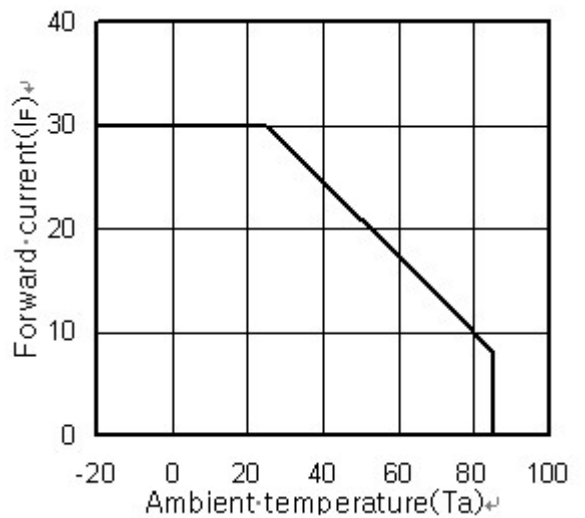
Ambient temperature vs

Luminous intensity (Ta=25°C)



Ambient temperature vs

Forward current (Ta=25°C)/1chip



* These graphs show typical values, and the values are not guaranteed.