

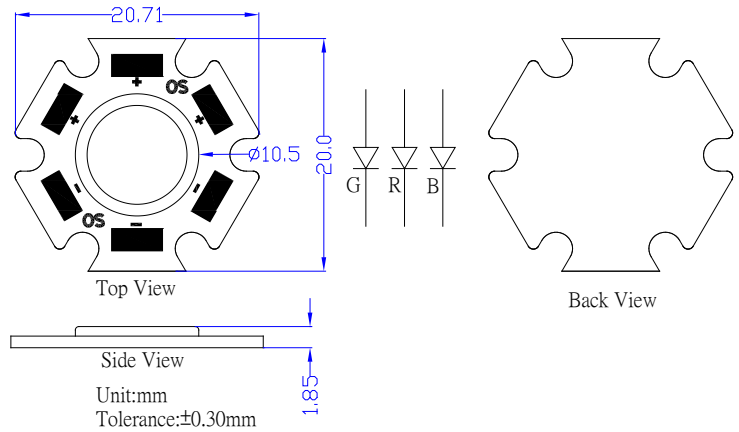
### ■Features

- Highest luminous flux
- Super energy efficiency
- Very long operating life
- Superior ESD protection
- Superior UV Resistance

### ■Applications

- Small Area Illuminations
- Games
- Bollards / Security / Garden
- Audio

### ■Outline Dimension

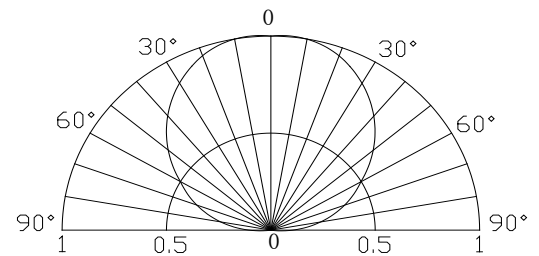


### ■Absolute Maximum Rating

(Ta=25 °C)

Item	Symbol	Value		Unit
		Red	Green/Blue	
DC Forward Current	$I_F$	600	600	mA
Pulse Forward Current*	$I_{FP}$	800	800	mA
Reverse Voltage	$V_R$	5	5	V
Power Dissipation	$P_D$	2,100	2,700	mW
Operating Temperature	Topr	-30 ~ +85		°C
Storage Temperature	Tstg	-40 ~ +100		°C
Lead Soldering Temperature	Tsol	260°C/5sec		-

### ■Directivity



\*Pulse width Max.10ms Duty ratio max 1/10

### ■Electrical -Optical Characteristics

(Ta=25 °C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	$V_F$ (R)	$I_F=500mA$	2.5	3.0	3.5	V
	$V_F$ (B/G)	$I_F=500mA$	3.5	4.0	4.5	V
DC Reverse Current	$I_R$	$V_R=5V$	-	-	10	$\mu A$
Domi. Wavelength	$\lambda_D$ (Red)	$I_F=500mA$	619	624	629	nm
	$\lambda_D$ (Green)	$I_F=500mA$	520	525	535	nm
	$\lambda_D$ (Blue)	$I_F=500mA$	455	460	465	nm
Luminous Flux	$\Phi_v$ (Red)	$I_F=500mA$	40	50	60	lm
	$\Phi_v$ (Green)	$I_F=500mA$	80	90	100	lm
	$\Phi_v$ (Blue)	$I_F=500mA$	20	25	30	lm
50% Power Angle	$2\theta_{1/2}$	$I_F=500mA$	-	120		deg

Note: \*1. Tolerance of chromaticity coordinates is  $\pm 10\%$  \*2. Dominant wavelength tolerance:  $\pm 1nm$

\*3. Tolerance of luminous Flux is  $\pm 15\%$

\*4 Don't drive at rated current more than 5s without heat sink for Xeon 1 Power emitter series.