

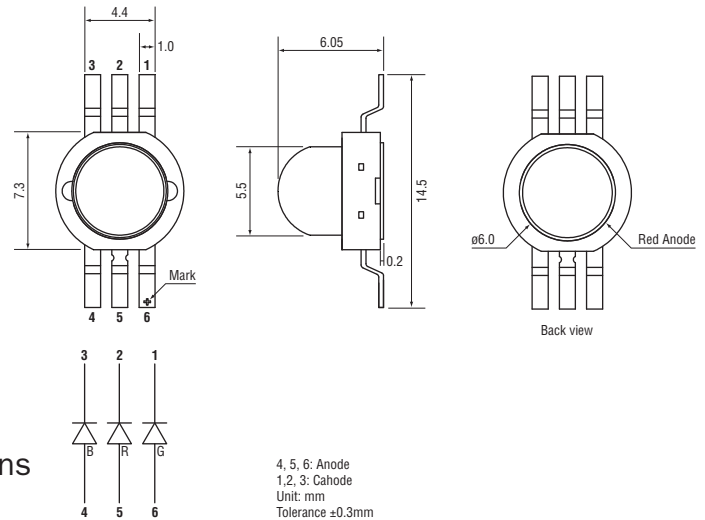
## Features:

- Highest luminous flux
- Super energy efficiency
- Long lifetime operation
- Superior ESD protection
- Superior UV resistance
- Water clear type

## Applications:

- Mobile phone flash
- Automotive interior/exterior lighting/signal lighting
- Arhitectural lighting
- LCD TV/monitor backlight
- Projector light source/traffic signals/task lighting
- Decorative/pathway lighting/household applications

## Outline dimensions:

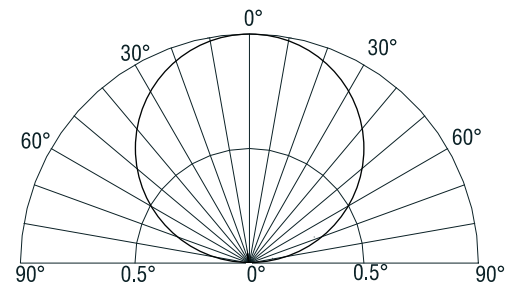


## Absolute maximum rating ( $T_a = 25^\circ\text{C}$ )

Item	Symbol	Value		Unit
		Red	Green/Blue	
DC forward current	$I_F$	400	400	mA
Pulse forward current*	$I_{FP}$	500	500	mA
Reverse voltage	$V_R$	5	5	V
Power dissipation	$P_D$	1200	1600	mW
Operating temperature	$T_{opr}$	-30 to +85		$^\circ\text{C}$
Storage temperature	$T_{stg}$	-40 to +100		$^\circ\text{C}$
Lead soldering temperature	$T_{sol}$	260 $^\circ\text{C}$ /5sec		-

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

## Directivity:



## Electrical – Optical characteristics ( $T_a=25^\circ\text{C}$ )

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC forward voltage	$V_F$ (R)	$I_F = 350\text{mA}$	2.0	2.5	3.0	V
	$V_F$ (B/G)	$I_F = 350\text{mA}$	3.0	3.3	4.0	V
DC reverse current	$I_R$	$V_R = 5\text{V}$	-	-	10	$\mu\text{A}$
Domi. wavelength	$\lambda_D$ (Red)	$I_F = 350\text{mA}$	620	625	630	nm
	$\lambda_D$ (Green)	$I_F = 350\text{mA}$	520	525	535	nm
	$\lambda_D$ (Blue)	$I_F = 350\text{mA}$	455	460	465	nm
Luminous intensity	$I_v$ (Red)	$I_F = 350\text{mA}$	40	50	-	lm
	$I_v$ (Green)	$I_F = 350\text{mA}$	50	70	-	lm
	$I_v$ (Blue)	$I_F = 350\text{mA}$	10	15	-	lm
50% Power angle	$2\theta_{1/2}$	$I_F = 350\text{mA}$	-	120	-	deg.

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