

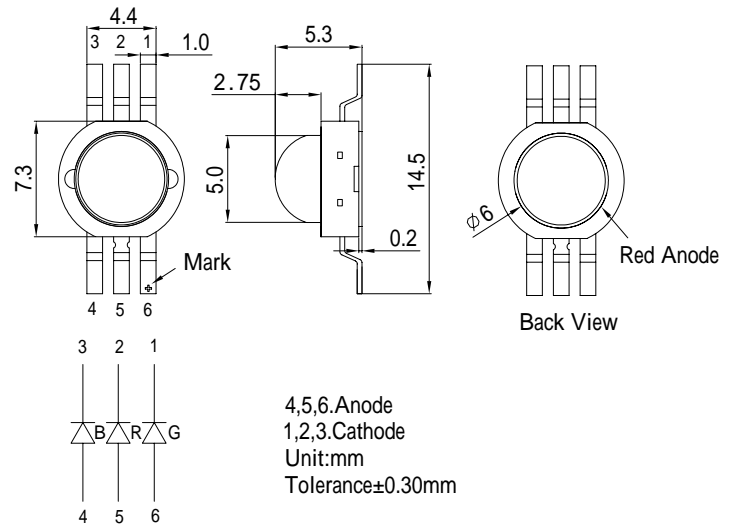
■Features

- 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
- Architectural Lighting
- LCD TV / Monitor Backlight
- Projector Light Source / Traffic Signals / Task Lighting
- Decorative / Pathway Lighting / Household Applications

■Outline Dimension



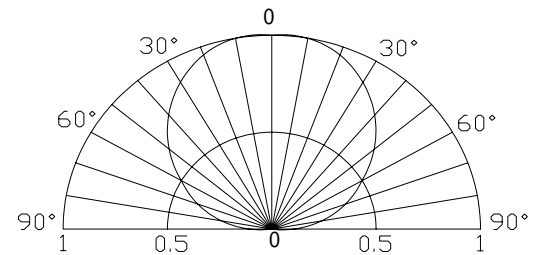
■Absolute Maximum Rating

(Ta=25 °C)

Item	Symbol	Value		Unit
		Red	Green/Blue	
DC Forward Current	I_F	800	800	mA
Pulse Forward Current*	I_{FP}	1000	1000	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	2450	3150	mW
Operating Temperature	T_{opr}	-30 ~ +85		
Storage Temperature	T_{stg}	-40 ~ +100		
Lead Soldering Temperature	T_{sol}	260 /5sec		-

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25 °C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	$V_F (R)$	$I_F=700mA$	2.5	2.8	3.5	V
	$V_F (B/G)$	$I_F=700mA$	3.5	3.8	4.5	V
DC Reverse Current	I_R	$V_R=5V$	-	-	10	μA
Domi. Wavelength	$\lambda_D (Red)$	$I_F=700mA$	620	625	630	nm
	$\lambda_D (Green)$	$I_F=700mA$	520	525	535	nm
	$\lambda_D (Blue)$	$I_F=700mA$	455	460	465	nm
Luminous Flux	$v (Red)$	$I_F=700mA$	70	80	-	lm
	$v (Green)$	$I_F=700mA$	120	120	-	lm
	$v (Blue)$	$I_F=700mA$	20	30	-	lm
50% Power Angle	$2\theta_{1/2}$	$I_F=700mA$	-	120	-	deg

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

■ Handling of Silicone Lens LEDs

Notes for handling of silicone lens LEDs

- Please do not use a force of over 3kgf impact or pressure on the silicone lens, otherwise it will cause a catastrophic failure.
- The LEDs should only be picked up by making contact with the sides of the LED body.
- Avoid touching the silicone lens especially by sharp tools such as Tweezers.
- Avoid leaving fingerprints on the silicone lens.
- Please store the LEDs away from dusty areas or seal the product against dust.
- When populating boards in SMT production, there are basically no restrictions regarding the form of the pick and place nozzle, except that mechanical pressure on the silicone lens must be prevented.
- Please do not mold over the silicone lens with another resin. (epoxy, urethane, etc)

