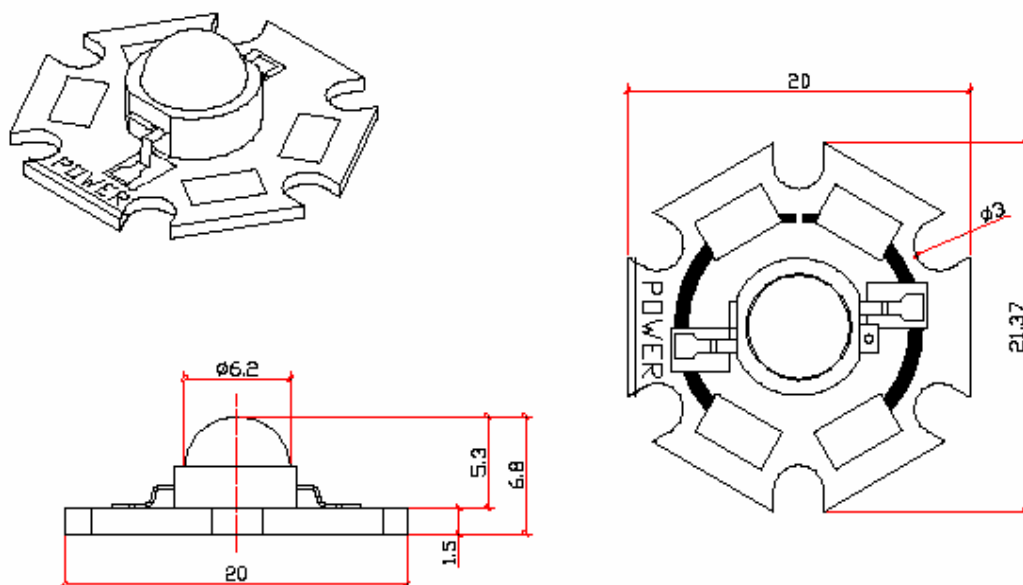


Package Dimensions



Features

1. Ultra Luminance
2. High Forward Current Operation: 350mA
3. High Thermal Conductivity

Application

1. Decorative and entertainment illumination
2. Signal & Symbol Luminaries
3. Exterior & Interior Automotive illumination

Notes

1. All Dimensions are in millimeters
2. Tolerance is +/- 0.25mm unless otherwise noted
3. Protruded resin under flange is 1.0mm max.
4. Lead measured where the leads emerge from the package
5. ESD Class based on Human Body Mode : 1000V (Ave.)

Chip Material	Emitting Color	Lens Color
InGaN/ SiC	Ultra White	Water Clear



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity ⁽¹⁾	Φ_v	16	25		lm	I _F = 350mA
Viewing Angle ⁽²⁾	2 θ 1/2		60		Deg.	
Forward Voltage ⁽³⁾	V _F	3.0	3.3	3.8	V	

(1) Luminous flux measurement tolerance is $\pm 10\%$

(2) Viewing Angle is defined as the off-axis angle where the Luminous Intensity is 1/2 the peak intensity.

(3) Forward Voltage measurement tolerance is $\pm 0.1V$

Colour Binning

Rank SW1		Rank SW2		Rank SW3	
Reference CCT: 6500K-8000K		Reference CCT: 5500K-6500K		Reference CCT: 3000K-5500K	
X	Y	X	Y	X	Y
0.28	0.248	0.296	0.276	0.33	0.318
0.264	0.267	0.283	0.305	0.33	0.36
0.283	0.305	0.33	0.36	0.361	0.385
0.296	0.276	0.33	0.318	0.356	0.351

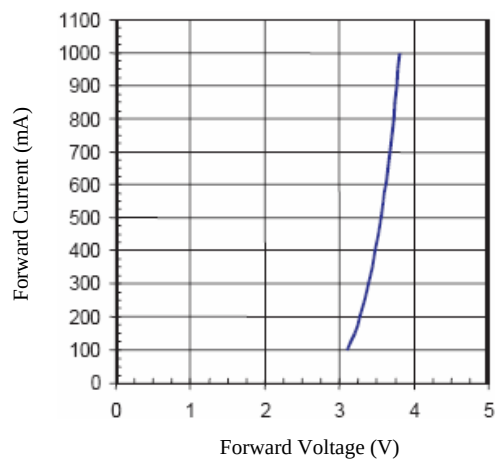
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Max.	Unit
Power Dissipation	P _D	2.25	W
DC Forward Current	I _F	500	mA
Operation Temperature Range	T _{opr}	-40 ~ +100	°C
Storage Temperature Range	T _{stg}	-40 ~ +100	°C
Junction Temperature	T _j	135	°C
Junction to Heat-sink Thermal Resistance	R _{th}	15	K/W
Soldering Temperature Range *	T _{sol}	250°C for 3 Seconds(Max.)	Deg.

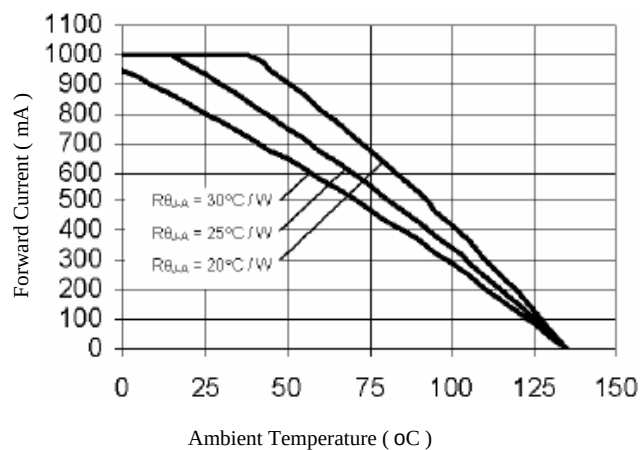
* Recommend a secondary heatsink is used

Typical Electro-Optical Characteristics Curves

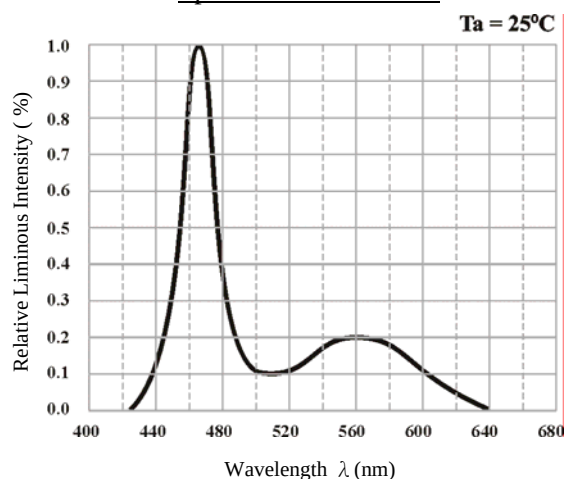
Forward Voltage vs Forward Current, $T_{\text{Ambient}} = 25^{\circ}\text{C}$



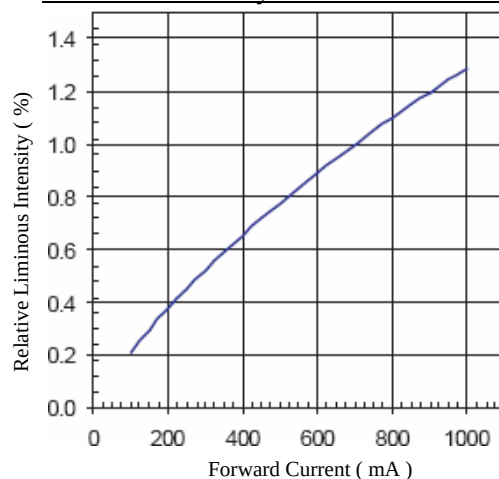
Forward Current VS Ambient Temperature



Spectrum Distribution



Luminous Intensity VS Forward Current



Viewing Angle Diagram

