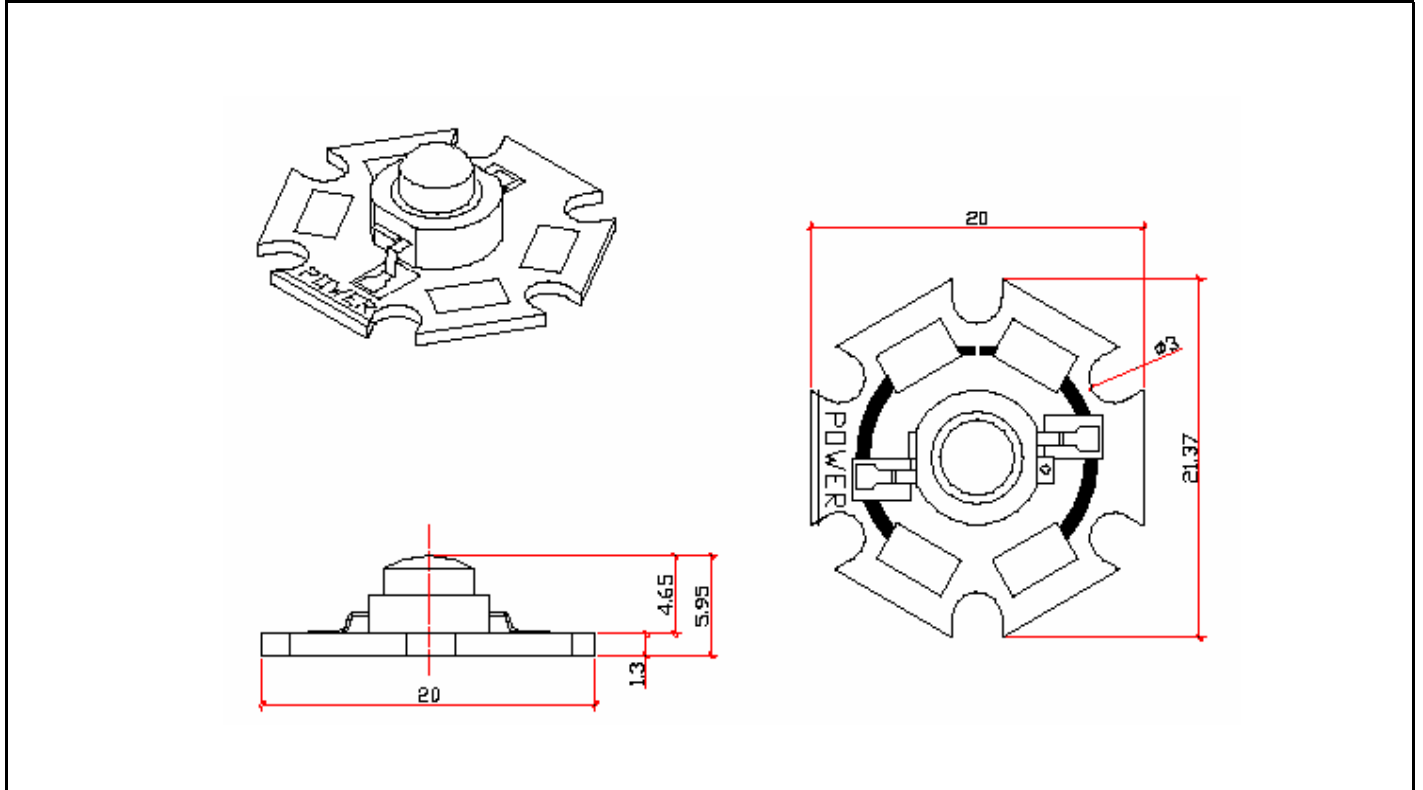


**Package Dimensions**



**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 <sup>(1)</sup>	$\Phi_v$	16	25		lm	I <sub>F</sub> = 350mA
Viewing Angle <sup>(2)</sup>	2 $\theta$ 1/2		120		Deg.	
Forward Voltage <sup>(3)</sup>	V <sub>F</sub>	3.0		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

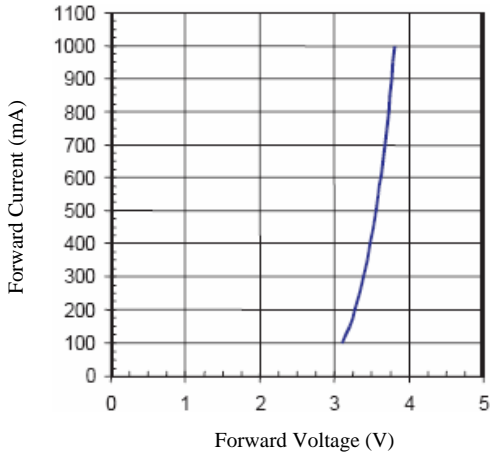
**Absolute Maximum Ratings ( Ta=25°C )**

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

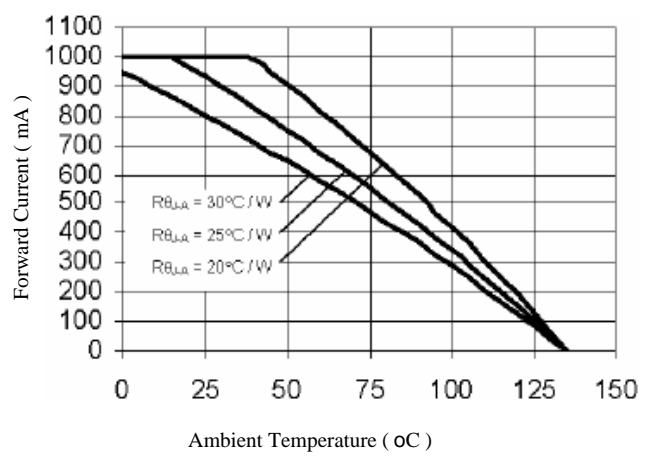
\* Recommend a secondary heatsink is used

**Typical Electro-Optical Characteristics Curves**

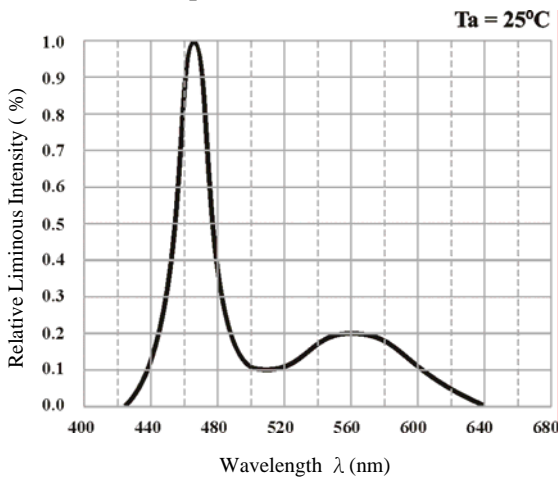
Forward Voltage vs Forward Current,  $T_{Ambient} = 25^{\circ}C$



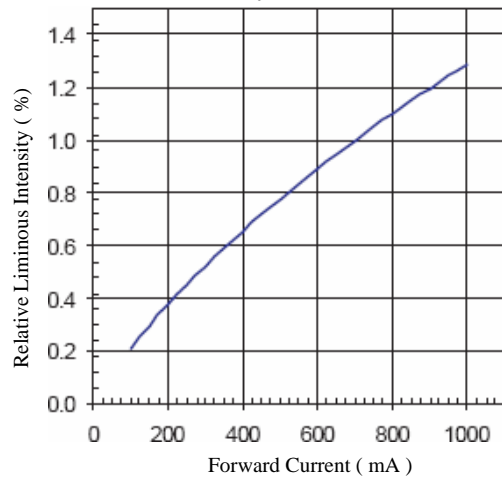
Forward Current VS Ambient Temperature



Spectrum Distribution



Luminous Intensity VS Forward Current



Viewing Angle Diagram

