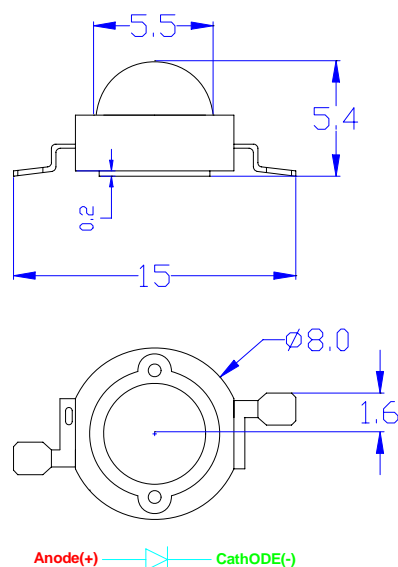


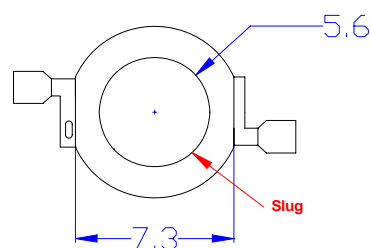
Features:

- Highest Flux Green
- High reliability and Very long operating life (up to 100K hrs)
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- NO UV
- Superior ESD protection
- RoHS Compliant

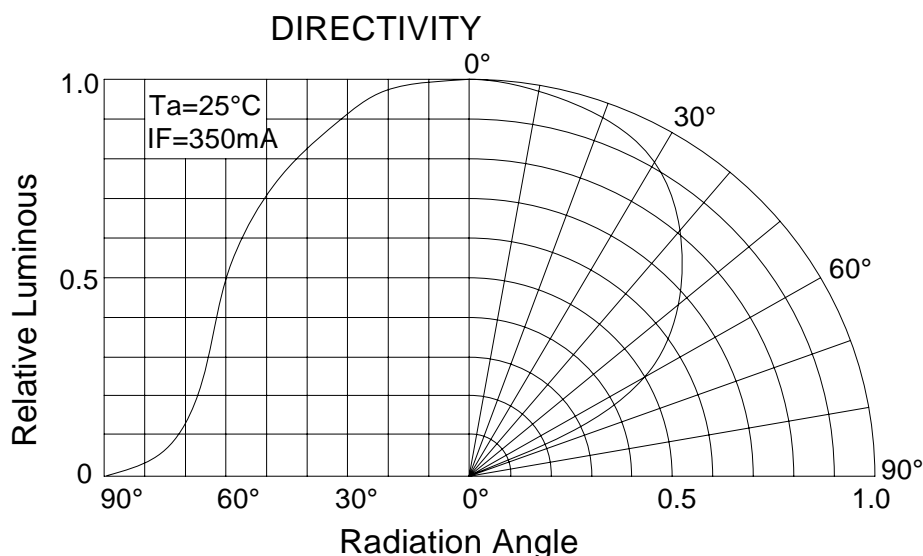


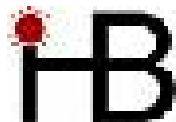
Typical Applications:

- Reading lights (car, bus, aircraft)
- Portable (flashlight, bicycle)
- Automotive Exterior (Stop-Tail-Turn, CHMSL, Mirror Side Repeat)
- Decorative



- All dimensions are millimeters.
- Tolerance is $\pm 0.1\text{mm}$ unless noted



**Absolute maximum ratings (Ta = 25°C)**

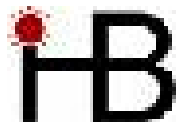
Parameter	Symbol	Test Condition	Value		Unit
			Min.	Max.	
DC Forward Current	IF	----	----	500	mA
Peak Pulse Current	Ipeak	Duty=0.1ms, 1kHz	----	1000	mA
Power Dissipation	Pd	----	----	1.4	W
LED Junction Temperature	Tj	----	----	120	°C
Operating Temperature	Topr	----	-25	+100	°C
Storage Temperature	Tstr	----	-40	+120	°C
ESD Sensitivity	---	HBM	8000	----	V
Soldering Temperature	---	-----	260°C for 5 Seconds max		

Electrical and optical characteristics (Ta = 25°C)

Parameter	Symbol	Test Condition	Value			Unit
			Min.	Typ.	Max.	
Forward Voltage	VF	IF = 350mA	3	3.4	4	V
Luminous Flux	Φv		60	70	----	lm
Viewing Angle	2θ 1/2		----	120	----	Deg.
Dominant Wavelength	λd		520	----	530	nm

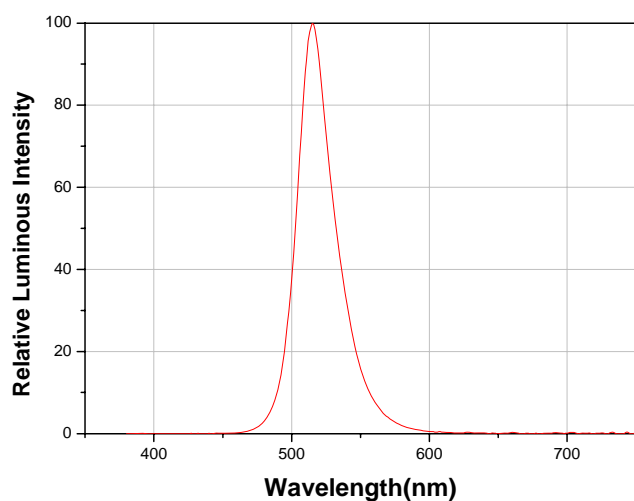
Luminous Flux Bins (Ta = 25°C) Unit: lm

Bin	J	K	L
Min	60	70	80
Max	70	80	100

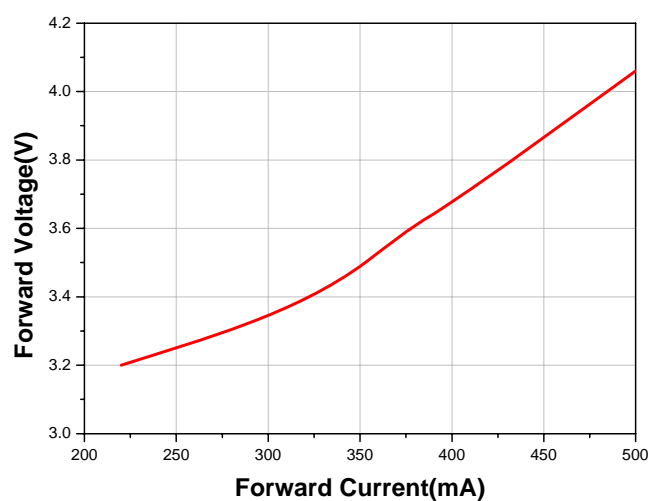


Typical Electro-Optical Characteristics Curves

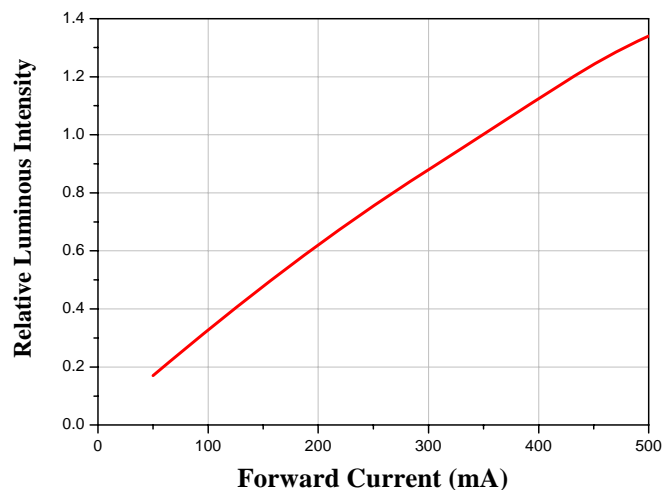
Relative Spectral Distribution
 $I_f=350\text{mA}$, $T_{\text{Ambient}}=25^\circ\text{C}$



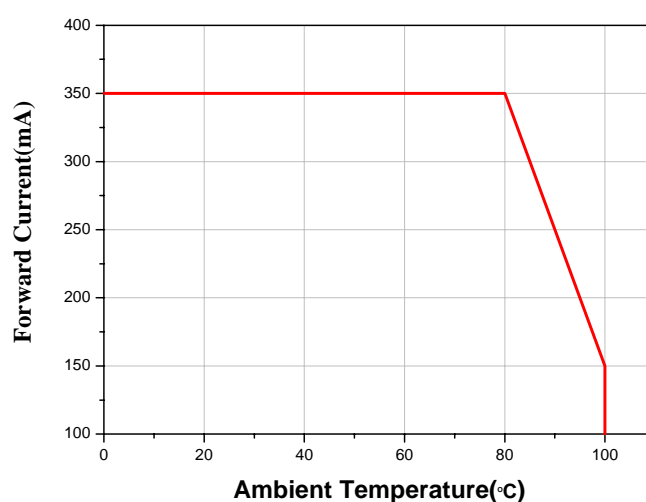
Forward Voltage vs Forward Current, $T_{\text{Ambient}}=25^\circ\text{C}$

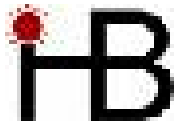


Relative Luminous Intensity vs Forward Current, $T_{\text{Ambient}}=25^\circ\text{C}$



Forward Current Derating Curve, Derating based on $T_{j\text{MAX}}=120^\circ\text{C}$





Precautions For Use

■ Storage

LEDs should be stored at temperatures less than 30°C and humidity less than 50%.

LEDs should be used within 168 hours (7 days) after the package is opened.

■ Special thermal designs are recommended to take in outer heat sink design, such as FR4PCB on Aluminum with thermal vias or FPC on Aluminum with thermal conductive adhesive, etc.

■ Sufficient thermal management must be conducted, or the die junction temperature will be over the limit under large electronic driving and LED lifetime will decrease critically.

■ Proper Handling

When handling the product, do not apply direct pressure on the silicone rubber. Do not touch the silicone rubber with tweezers to avoid scratching or other damage.

Note

1. Flux is measured with an accuracy of $\pm 15\%$
2. CCT is measured with an accuracy of $\pm 200K$
3. Dominant Wavelength is measured with an accuracy of $\pm 1.5nm$
4. Forward Voltage is measured with an accuracy of $\pm 0.15V$