

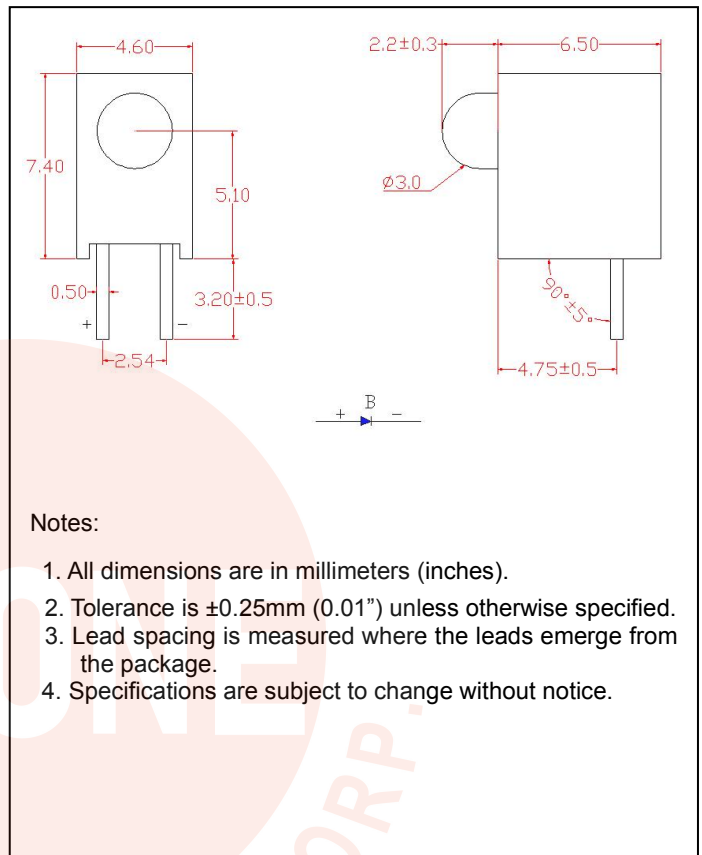
● Features:

1. Chip material:InGaN
2. Emitted color : Blue
3. Lens Appearance : White Diffused
4. Designed for ease in circuit board assembly.
5. Black case enhance contrast ratio.
6. Solid state light source.
7. Reliable and rugged.
8. 3mm diameter package.
9. This product don't contained restriction substance, compliance ROHS standard.

● Applications:

1. TV set
2. Monitor
3. Telephone
4. Computer
5. Circuit board

● Package dimensions



● Absolute Maximum Ratings($T_a=25^\circ\text{C}$)

Parameter	Symbol	Blue	Unit
Power Dissipation	P_d	100	mW
Forward Current	I_F	30	mA
Peak Forward Current* ¹	I_{FP}	50	mA
Reverse Voltage	V_R	5	V
Operating Temperature	T_{opr}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Storage Temperature	T_{stg}	$-40^\circ\text{C} \sim 85^\circ\text{C}$	
Soldering Temperature	T_{sol}	260°C (for 5 seconds)	

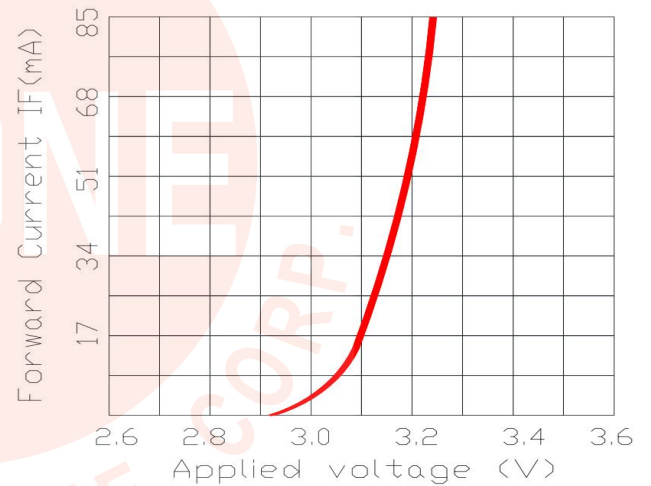
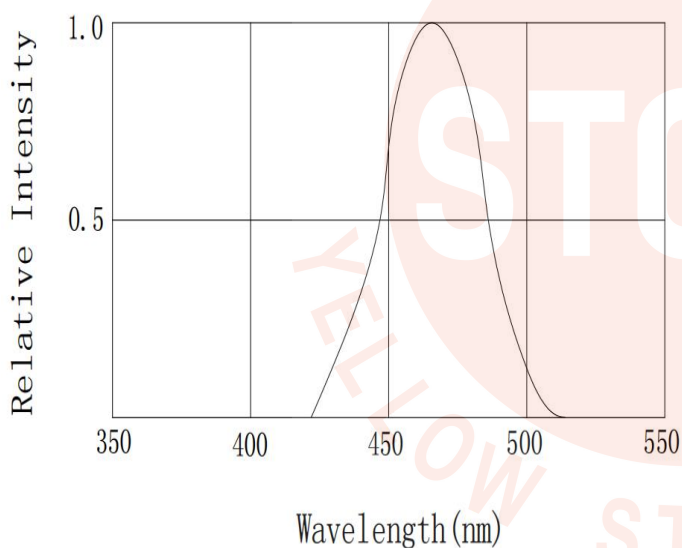
*¹Condition for I_{FP} is pulse of 1/10 duty and 0.1msec width.

● Electrical and optical characteristics(Ta=25°C)

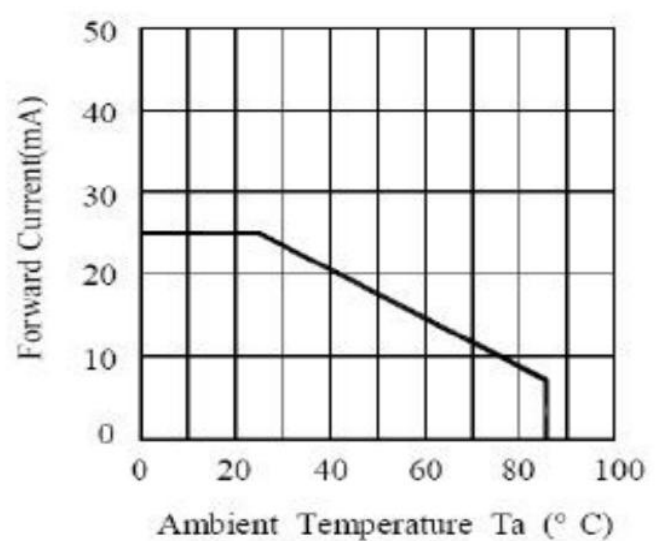
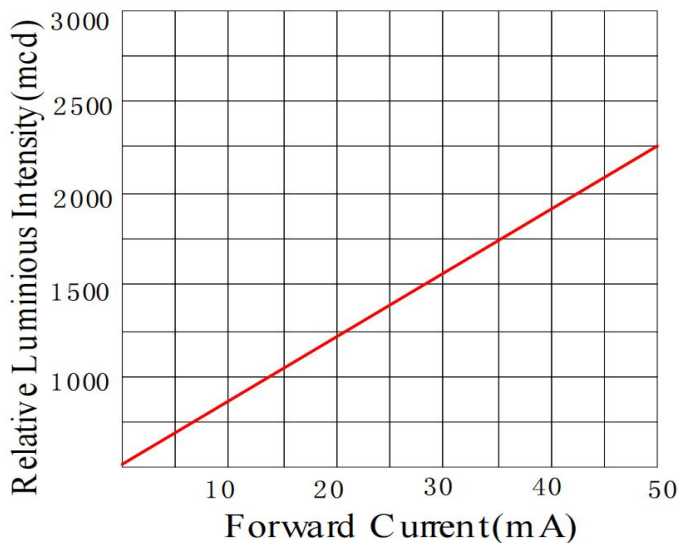
Parameter	Symbol	Condition	Color	Min.	Typ.	Max.	Unit
Forward Voltage	V_F	$I_F=20\text{mA}$	Blue	2.7		3.3	V
Luminous Intensity	I_v	$I_F=20\text{mA}$	Blue	1000		1600	mcd
Reverse Current	I_R	$V_R=1\text{V}$	Blue	-	-	10	μA
Dominant Wave Length	λ_d	$I_F=20\text{mA}$	Blue	465	468	475	nm
Spectral Line Half-width	$\Delta\lambda$	$I_F=20\text{mA}$	Blue	-	30	-	nm
Viewing Angle	$2\theta_{1/2}$	$I_F=20\text{mA}$	Blue	-	30	-	deg

● Typical Electro-Optical Characteristics Curves

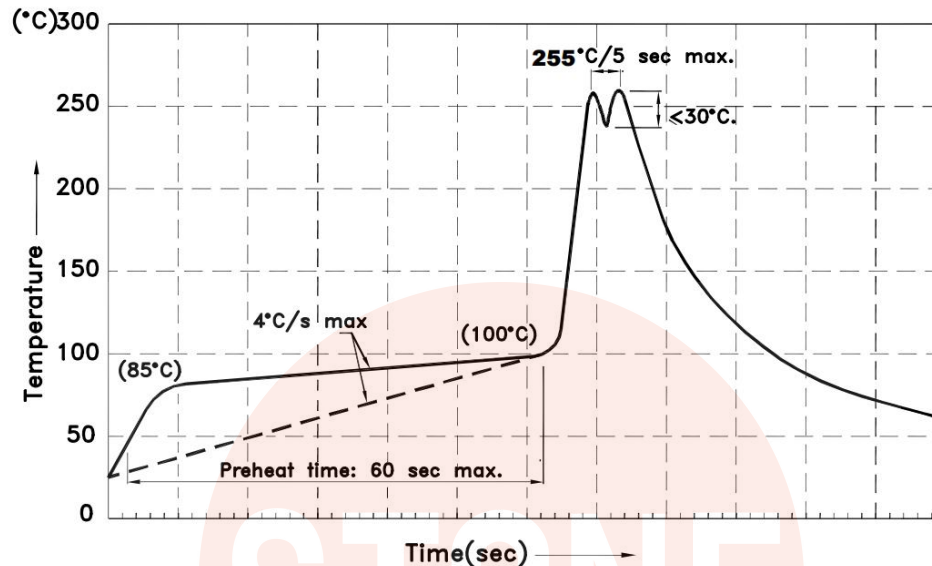
Blue



Forward Current Vs. Ambient Temperature



●Dip Soldering



1. Please avoid any external stress applied to the lead-frames and epoxy while the LEDs are at high temperature, especially during soldering
2. DIP soldering and hand soldering should not be done more than one time.
3. After soldering, avoid the epoxy lens from mechanical shock or vibration until the LEDs are back to room temperature.
4. Avoid rapid cooling during temperature ramp-down process
5. Although the soldering condition is recommended above, soldering at the lowest possible temperature is feasible for the LEDs

●IRON Soldering

A: Max: 350°C Within 3 sec. One time only.

B: The products of 3mm without flange, welding condition of flat plate PCB Max: 350°C Within 2 sec. One time only

