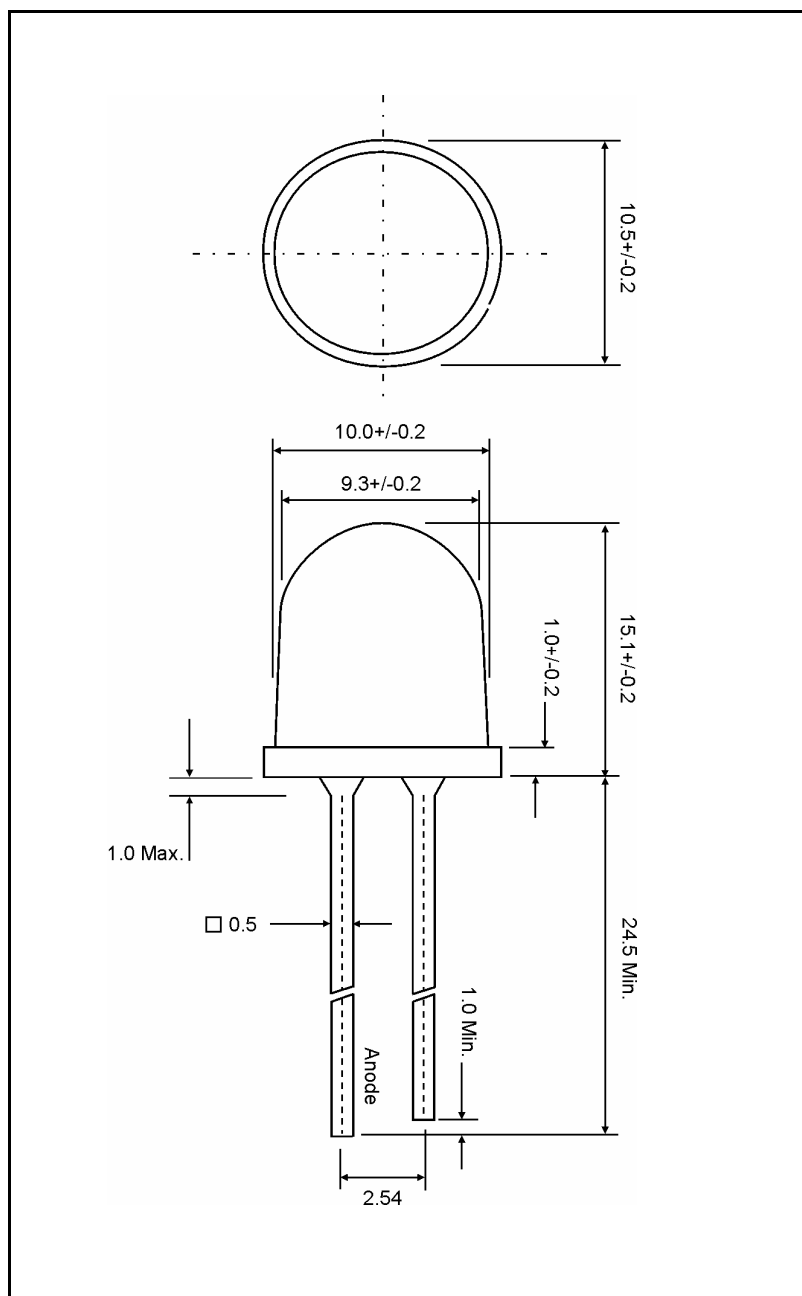


Package Dimensions



Characters

Led Round
Reliable and Rugged
Low Power Consumption
Low Working Current

Functions

Back-Lighting
Light Guide

Notes

1. All Dimensions are in millimeters
2. Tolerance is ± 0.25 mm 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 (Mil-Std-883d Method 3015.7) based on

Human Body Mode : 1000V (Ave.)

Chip Material	Emitting Color	Lens Color
GaN	White	Water Clear



Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I _V	30000		50000	mcd	I _F = 20mA
Viewing Angle *	2θ ^{1/2}		10		Deg.	
Chromaticity Coordinates	X		.29			
	Y		.28			
Spectrum Radiation Bandwidth	Δλ		21		nm	
Forward Voltage	V _F	3.0	3.3	3.6	V	
Recommended Working Current	R _{IF}	10	20	25	mA	

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

Absolute Maximum Ratings (Ta=25°C)

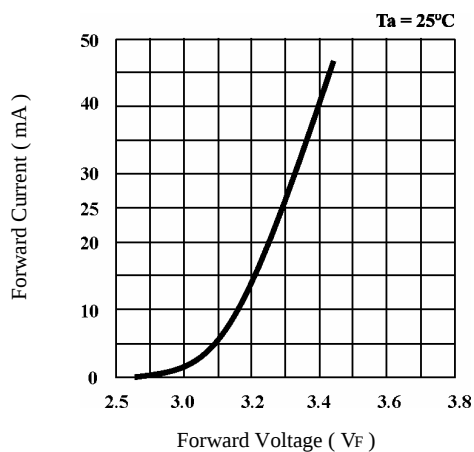
Parameter	Symbol	Max.	Unit
Power Dissipation	P _D	100	mW
DC Forward Current	I _F	30	mA
Peak Forward Current #	I _{PF}	120	mA
Reverse Voltage	V _R	5	V
Reverse Current	I _R	10	uA
Operation Temperature Range	T _{opr}	+ 80 ~ - 30	Deg.
Storage Temperature Range	T _{stg}	+ 100 ~ - 40	Deg.
Soldering Temperature Range *	T _{sol}	260°C for 5 Seconds	Deg.

Duty Ratio = 1/16 , Pulse width = 0.1ms

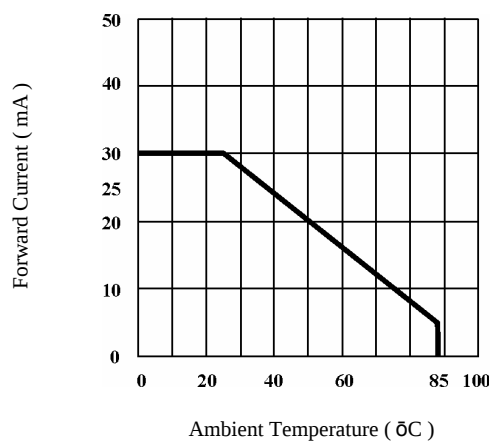
* Lead Soldering Temperature Range (1.6mm from LED Body)

Typical Electro-Optical Characteristics Curves

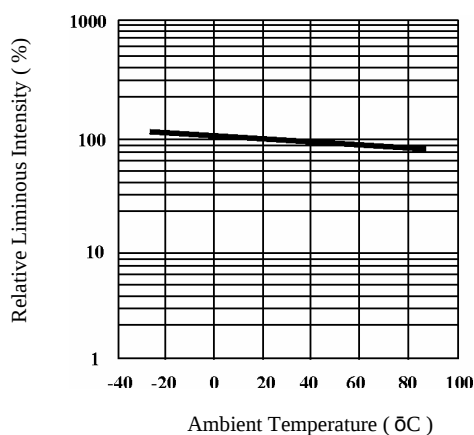
Forward Current VS Forward Voltage



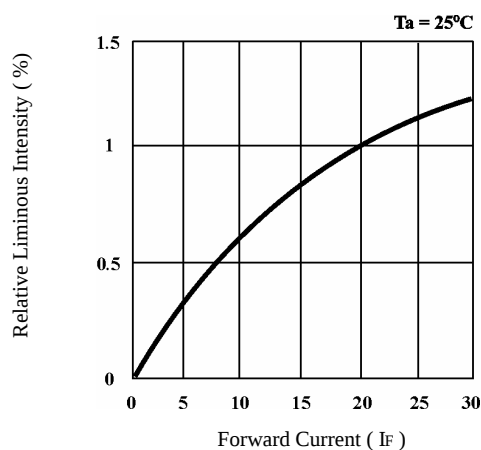
Forward Current VS Ambient Temperature



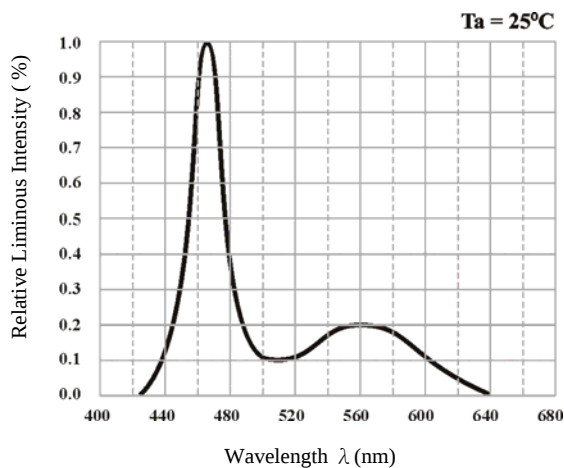
Luminous Intensity VS Ambient Temperature



Luminous Intensity VS Forward Current



Spectrum Distribution



Viewing Angle Diagram

