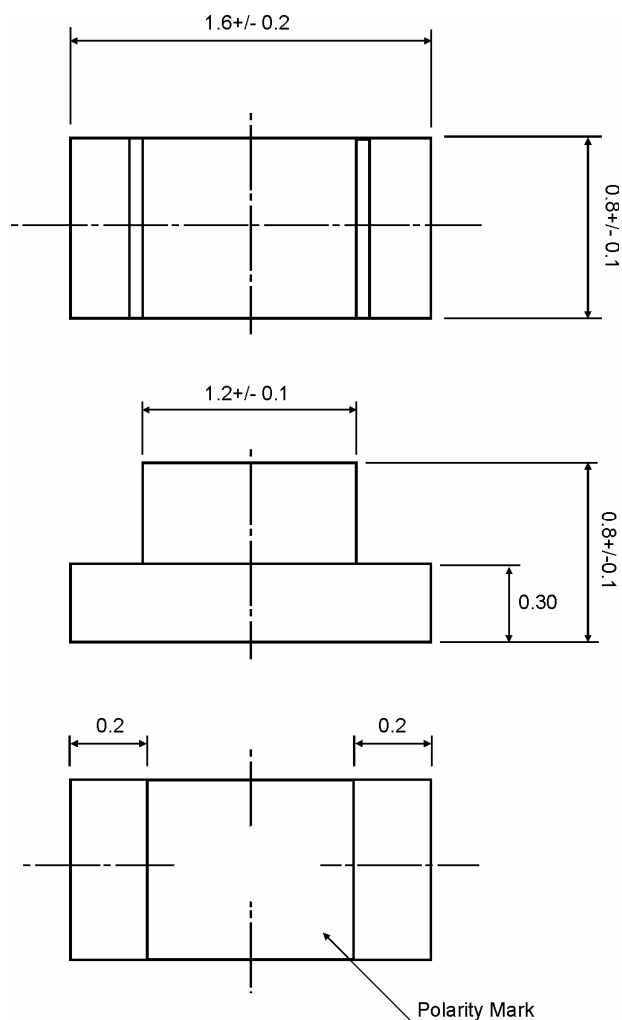


Package Dimensions



Characters

SMD 0603

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

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		190		mcd	I _F = 5mA
Viewing Angle *	2θ ^{1/2}		120		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.

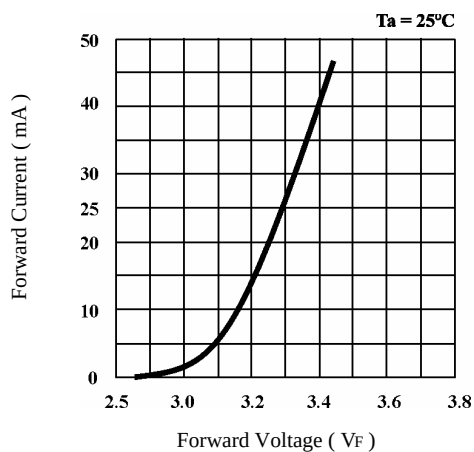
Absolute Maximum Ratings (Ta=25°C)

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}		Deg.
Storage Temperature Range	T _{stg}	+ 100 ~ - 40	Deg.
Soldering Temperature Range	T _{sol}	260°C for 5 Seconds	Deg.

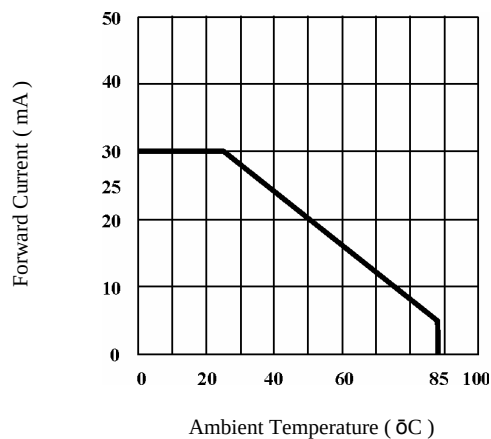
Duty Ratio = 1/16 , Pulse width = 0.1ms

Typical Electro-Optical Characteristics Curves

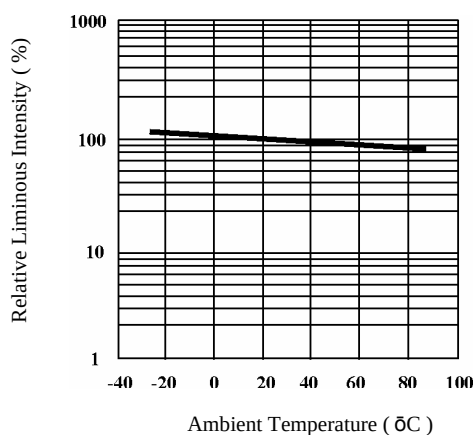
Forward Current VS Forward Voltage



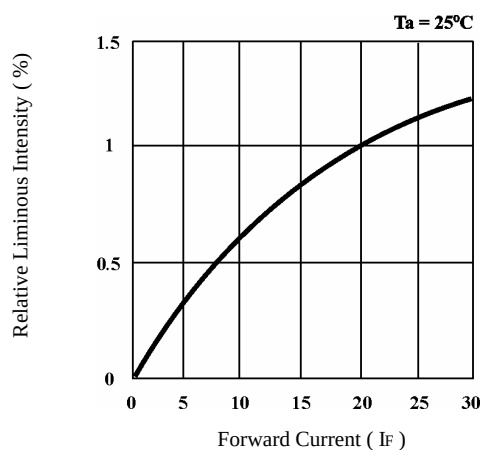
Forward Current VS Ambient Temperature



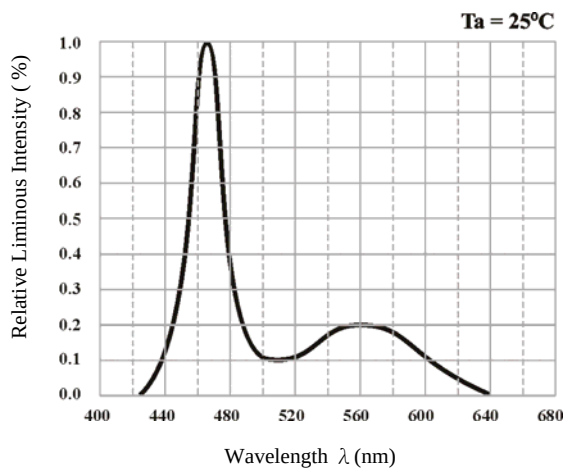
Luminous Intensity VS Ambient Temperature



Luminous Intensity VS Forward Current



Spectrum Distribution



Viewing Angle Diagram

