

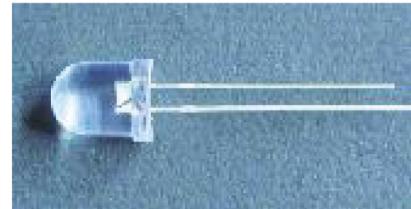
## Datasheet

Item no. 1573757

V1\_0617\_01\_DT\_ds\_en

### Features

- High efficiency
- Low Power consumption
- General purpose leads
- Selected minimum intensities
- Available on tape and reel
- Pb free



### Descriptions

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc
- Superior performance in outdoor environment

### Usage Notes:

- When using LED, it must use a protective resistor in series with DC current about 20mA

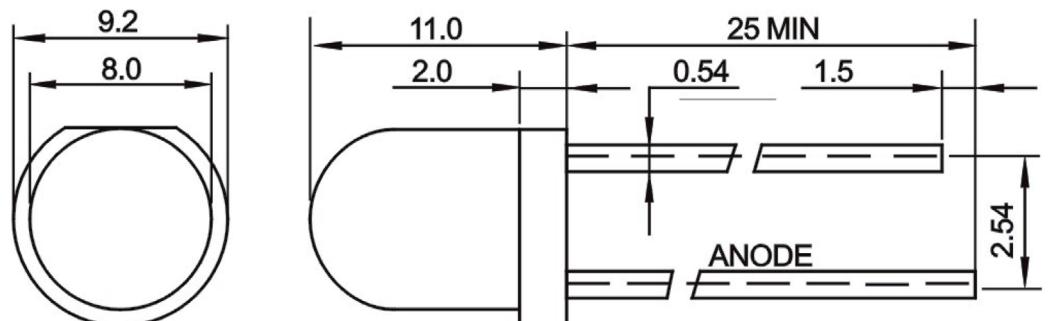
### Applications

- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

## Device Selection Guide

	Chip		Lens Color
	Material	Emitted Color	
	InGaN	White	Water clear

## Package Dimensions



UNIT:mm

## Notes:

- Other dimensions are in millimeters, tolerance is 0.25mm except being specified.
- Protruded resin under flange is 1.5mm Max LED.
- Bare copper alloy is exposed at tie-bar portion after cutting.

## Absolute Maximum Rating ( $T_a=25^\circ C$ )

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	$I_{FPM}$	70	mA
Forward Current	$I_{FM}$	30	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	140	mW
Operating Temperature	$T_{opr}$	-40~+80	°C
Storage Temperature	$T_{stg}$	-40~+100	°C
Soldering Heat (5s)	$T_{sol}$	260	°C

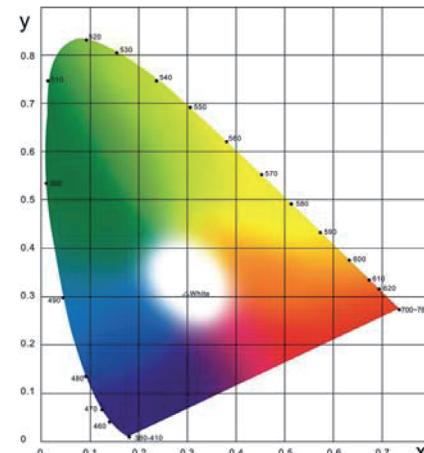
## Electro-Optical Characteristics ( $T_a=25^\circ C$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_V$	2000	3500	---	mcd	IF=20mA(Note 1)
Viewing Angle	$2\theta_{1/2}$	---	25	---	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	---	---	---	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	25	30	35	nm	IF=20mA
Forward Voltage	$V_F$	2.9	---	3.5	V	IF=20mA
Reverse Current	$I_R$	---	---	10	μA	$VR=5V$

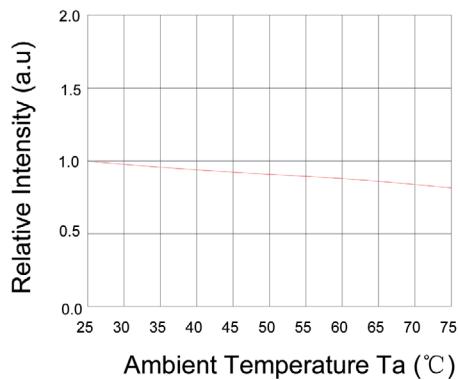
### Note:

1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

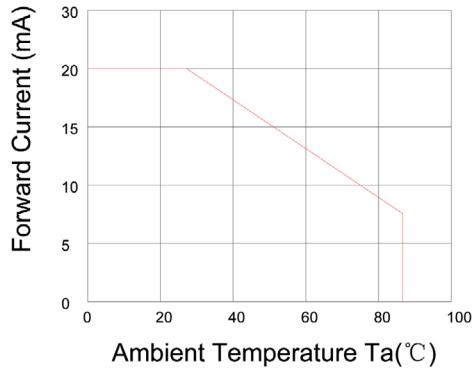
## Typical Electro-Optical Characteristics Curves



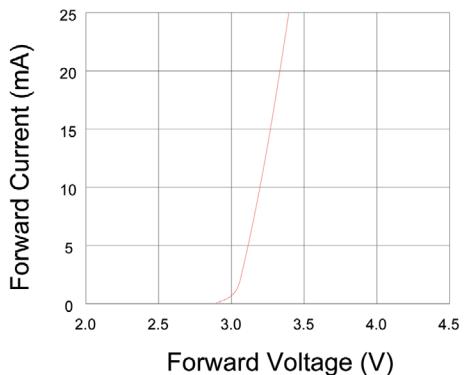
Relative Intensity VS. Ambient Temp



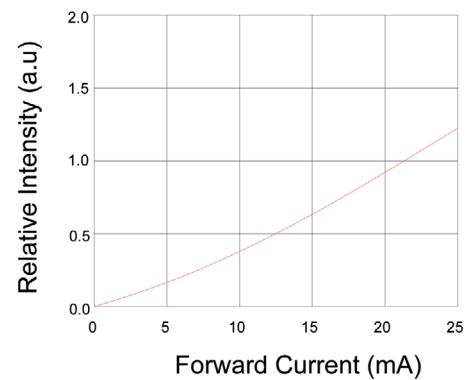
Forward Current VS.Ambient Temp.



Forward Current VS.Forward Voltage



Forward Current VS.Relative Intensity



Forward Current (mA)

Radiation Characteristics

