

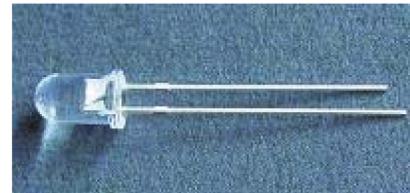
## Datasheet

Item no. 1573714

V1\_0617\_01\_DT\_ds\_en

### Features

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



### 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 18-20mA

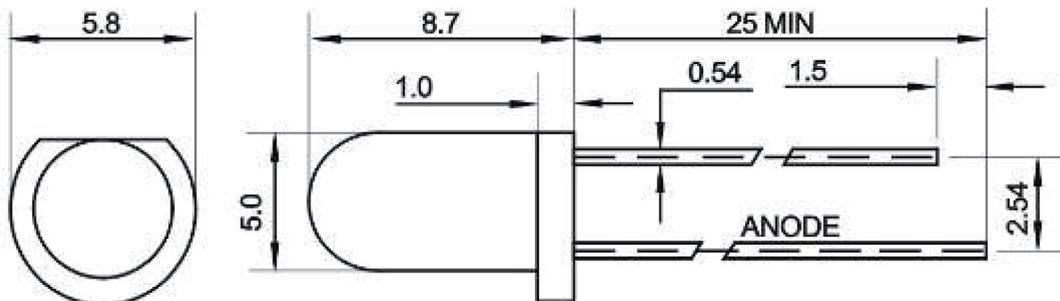
### Applications

- ◆ Outdoor and Indoor LED Display
- ◆ Traffic Signal
- ◆ Lighting
- ◆ General Purpose Indicators
- ◆ Back Light
- ◆ VWS

## Device Selection Guide

	Chip		Lens Color
	Material	Emitted Color	
	AlGaNp	Red	Water clear

## Package Dimensions



## 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 ( $T_a=25^\circ\text{C}$ )

Parameter	Symbol	Absolute Maximum Rating	Unit
Peak Forward Current (1/10 Duty Cycle, 0.1ms Pulse Width)	$I_{FPM}$	100	mA
Forward Current	$I_{FM}$	25	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	150	mW
Operating Temperature	$T_{opr}$	-30~+80	°C
Storage Temperature	$T_{stg}$	-40~+85	°C
Soldering Heat (3s)	$T_{sol}$	260	°C

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

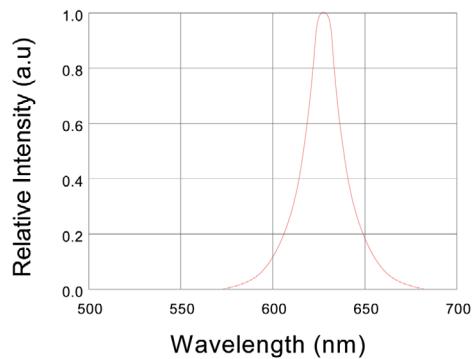
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_V$	15000	---	20000	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	15	---	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	620	---	630	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	IF=20mA
Forward Voltage	$V_F$	1.9	---	2.5	V	IF=20mA
Reverse Current	$I_R$	---	---	10	μA	VR=5V

### Note:

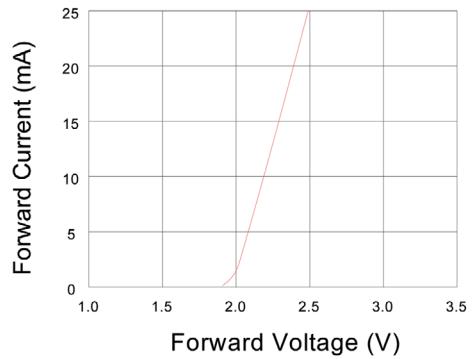
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2.  $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

## Typical Electro-Optical Characteristics Curves

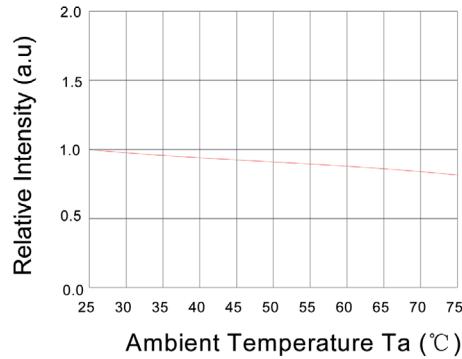
Relative Intensity VS. Wavelength



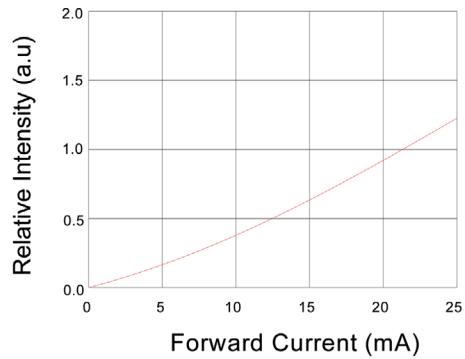
Forward Current VS. Forward Voltage



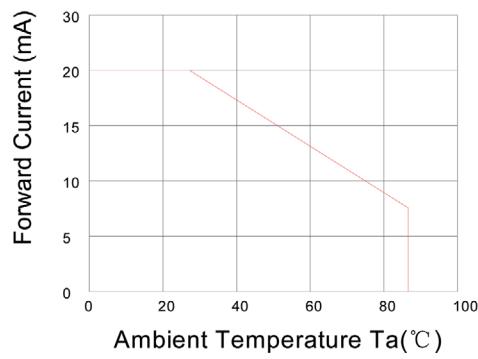
Relative Intensity VS. Ambient Temp



Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics

