



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:

Surge will damage the LED

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

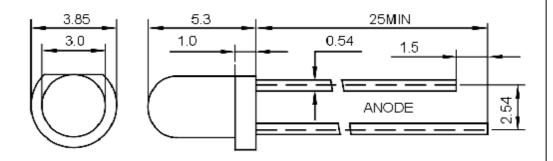
Device Selection Guide

LED Part No.	Cl	nip		
	Material	Emitted Color	Lens Color	
3-22B-WC56-20	AlGaInP	Red	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 (Ta=25)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P _D	140	mW
Operating Temperature	Topr	-40 +80	
Storage Temperature	Tstg	-40 +100	
Soldering Heat (5s)	Tsol	260	





Electro-Optical Characteristics (Ta=25)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1500	2000		mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	15	20	25	Deg	(Note 2)
Peak Emission Wavelength	λр	620	630	635	nm	IF=20mA
Spectral Line Half-Width	! λ	15	20	25	nm	IF=20mA
Forward Voltage	$V_{\rm F}$	1.9		2.3	V	IF=20mA
Reverse Current	I_R			10	μΑ	VR=5V

Note:

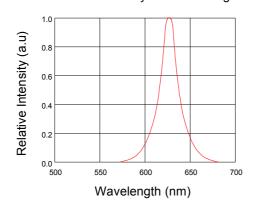
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



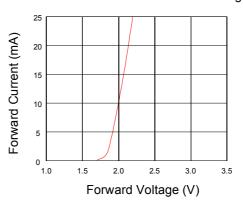


Typical Electro-Optical Characteristics Curves

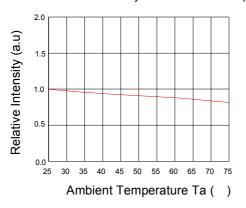
Relative Intensity VS. Wavelength



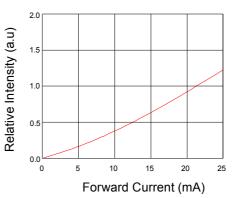
Forward Current VS.Forward Voltage



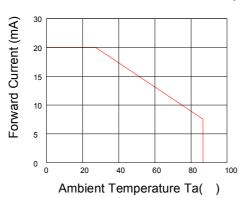
Relative Intensity VS. Ambient Temp



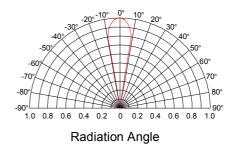
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics







Notes

- 1. Above specification may be changed without notice. Ever-Led will reserve authority on material change for above specification.
- 2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Ever-Led assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.