



Features

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

Descriptions

• The LED lamps are available with different colors, intensities, epoxy colors, etc

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

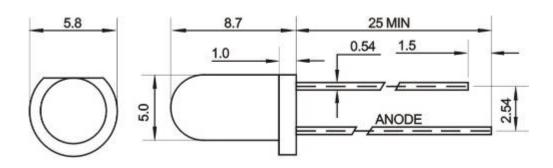
Device Selection Guide

LED Part No.	Cł	nip		
	Material	Emitted Color	Lens Color	
5-22-CD32	GaP	Red	Color Diffused	





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 (Ta=25°C)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	$I_{\rm FPM}$	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	PD	140	mW
Operating Temperature	Topr	-40~+80	°C
Storage Temperature	Tstg	$-40 \sim +100$	°C
Soldering Heat (5s)	Tsol	260	°C





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

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	10	20	30	mcd	IF=20mA(Note1)
Viewing Angle	$2 \theta_{1/2}$	30	40	50	Deg	(Note 2)
Peak Emission Wavelength	λр	630	650	700	nm	IF=20mA
Spectral Line Half-Width	$\bigtriangleup \lambda$	15	20	25	nm	IF=20mA
Forward Voltage	V _F	1.9		2.3	V	IF=20mA
Reverse Current	I _R			10	μĄ	VR=5V

Note:

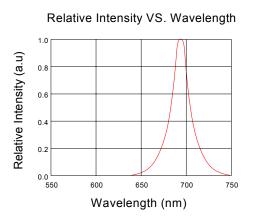
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.

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

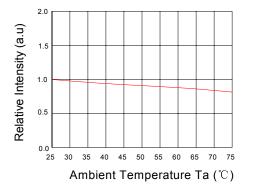


Evrard Current (W) 20 15 10 5 0 1.0 1.5 2.0 2.5 3.0 3.5

Forward Current VS.Forward Voltage

Forward Voltage (V)

Relative Intensity VS. Ambient Temp



Forward Current VS.Ambient Temp.

