



#### **Features**

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

# **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**

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LED Part No.	Material	Emitted Color	Lens Color	
5-22-CD33	AlGalnP	Green	Color Diffused	

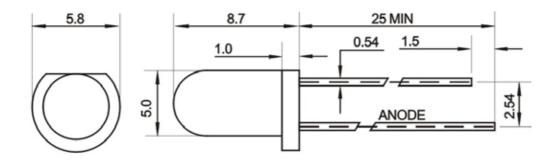
# **Ordering Information**

Part No.	Packaging		
5-22-CD33	Bulk		
5-22-CD33TR1	Tape & Reel		
5-22-CD33TA	Tape & Ammo		





## **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	$I_{FPM}$	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	$^{\circ}$ C
Storage Temperature	Tstg	-40~+100	$^{\circ}$ C
Soldering Heat (5s)	Tsol	260	$^{\circ}$

## Electro-Optical Characteristics (T<sub>a</sub>=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	<b>Test Condition</b>
Luminous Intensity	Iv	50	80	100	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	30	40	50	Deg	(Note 2)
Peak Emission Wavelength	λр	565	570	575	nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	$V_{\mathrm{F}}$	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**

