



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

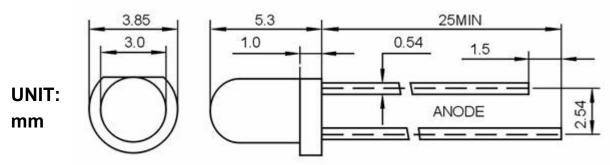
Device Selection Guide

LED D. 4 No.	CI	nip		
LED Part No.	Material	Emitted Color	Lens Color	
3-22b-CD44	AlGaInP	Yellow	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_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P_{D}	130	mW
Operating Temperature	Topr	-40~+80	$^{\circ}\!$
Storage Temperature	Tstg	-40~+100	$^{\circ}\!$
Soldering Heat (5s)	Tsol	260	$^{\circ}$ C

Electro-Optical Characteristics (T_a=25°C)

Electro o pitem emiliace (1. 200)									
Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition			
Luminous Intensity	Iv	100	150		mcd	IF=20mA(Note1)			
Viewing Angle	$2\theta_{1/2}$		40	50	Deg	(Note 2)			
Peak Emission Wavelength	λр	580	590	595	nm	IF=20mA			
Spectral Line Half-Width	$\triangle \lambda$	15	20	25	nm	IF=20mA			
Forward Voltage	V_{F}	1.9		2.3	V	IF=20mA			
Reverse Current	I_R			10	μΑ	VR=5V			

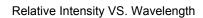
Notes:

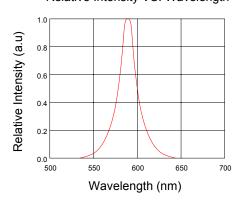
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. $\theta 1/2$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



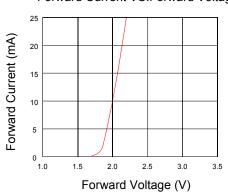


Typical Electro-Optical Characteristics Curves

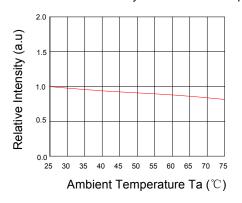




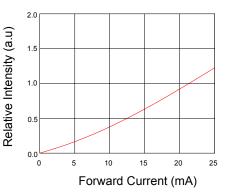
Forward Current VS.Forward Voltage



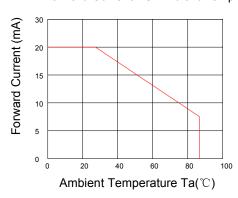
Relative Intensity VS. Ambient Temp



Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics

