

# BEELED

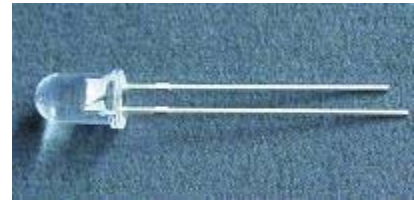
## BEELED -

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**MODEL: 5003R1C-CSB-B**

### 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

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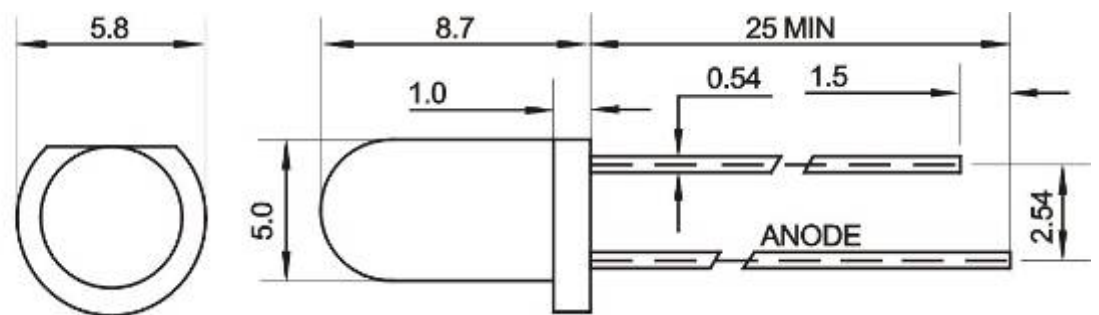
### Device Selection Guide

LED Part No.	Chip		Lens Color	Iv(mcd)@20mA		Viewing Angle
	Material	Emitted Color		Min.	Max.	2θ1/2
5003R1C-CSB-B	AlGaInP	Red	Water clear	1000	2500	25-30

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

### Package Dimensions



UNIT:mm

### Notes:

- \*All dimensions are in millimeters.
- \*Tolerance is  $\pm 0.25$  unless otherwise noted.
- \*Specifications are subject to change without notice.



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### **Absolute Maximum Rating ( $T_a=25^{\circ}\text{C}$ )**

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	$I_{FPM}$	70	mA
Forward Current	$I_{FM}$	30	mA
Reverse Voltage	$V_R$	5	V
Power Dissipation	$P_D$	75	mW
Operating Temperature	$T_{opr}$	-40~+80	$^{\circ}\text{C}$
Storage Temperature	$T_{stg}$	-40~+100	$^{\circ}\text{C}$
Lead Solder Temperature	$T_{sol}$	260 $^{\circ}\text{C}$ for 3 seconds	$^{\circ}\text{C}$

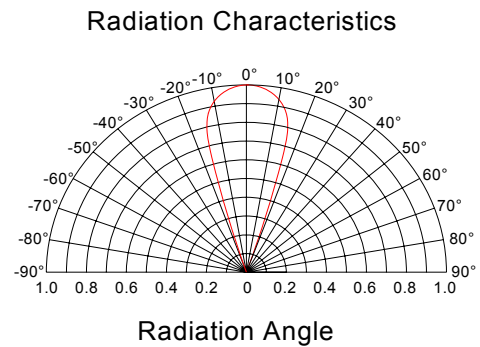
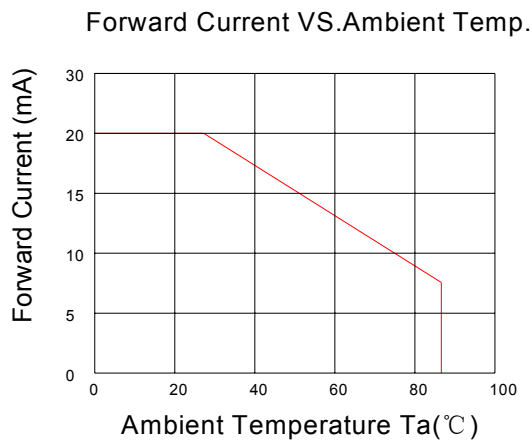
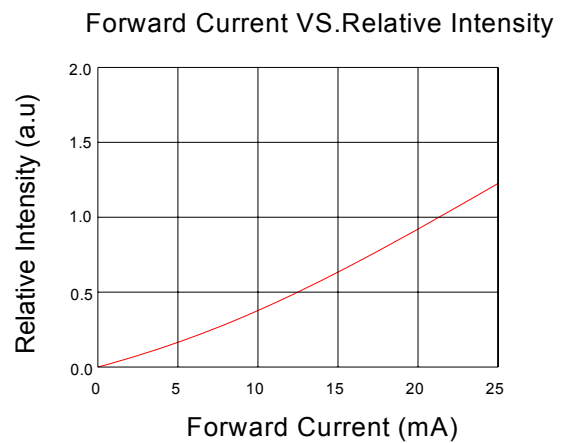
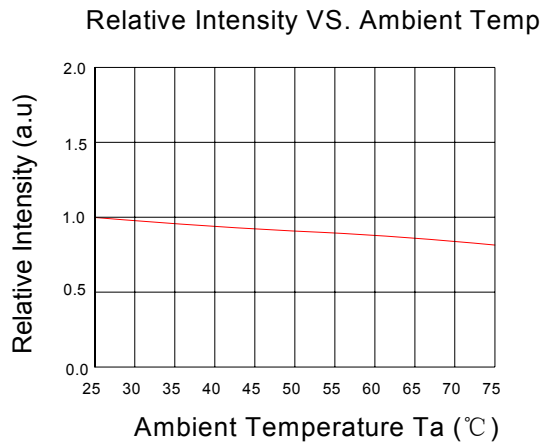
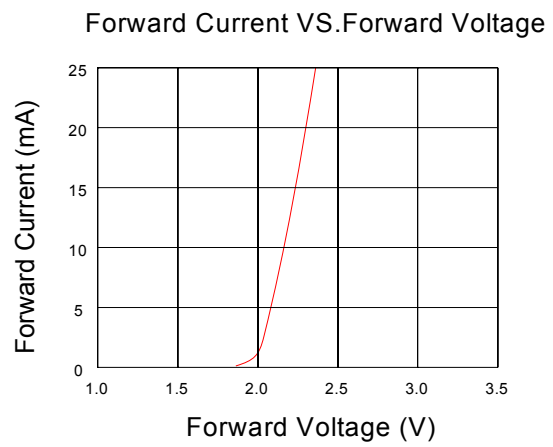
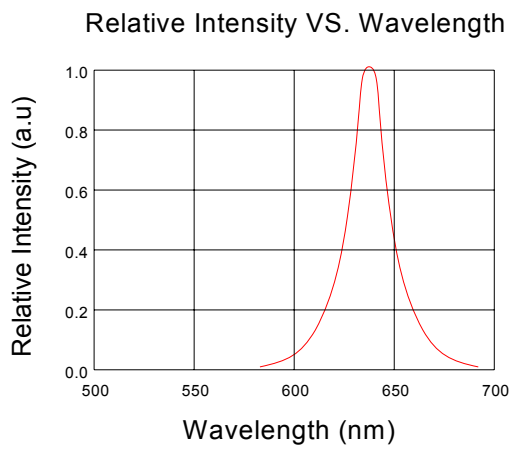
### **Electro-Optical Characteristics ( $T_a=25^{\circ}\text{C}$ )**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Peak Emission Wavelength	$\lambda_p$	620	---	635	nm	$I_F=20\text{mA}$
Forward Voltage	$V_F$	1.9	---	2.3	V	$I_F=20\text{mA}$
Reverse Current	$I_R$	---	---	10	$\mu\text{A}$	$V_R=5\text{V}$

#### **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





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