

BEELED

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MODEL: 5003R1C-CSA-A

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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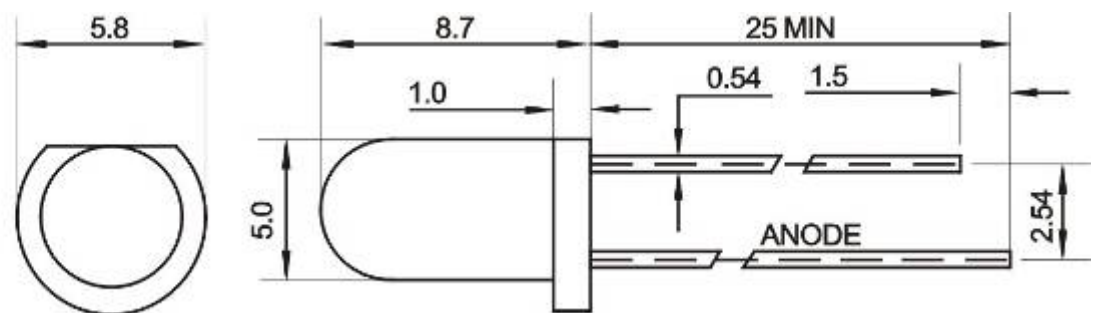
Device Selection Guide

LED Part No.	Chip		Lens Color	Iv(mcd)@20mA		Viewing Angle
	Material	Emitted Color		Min.	Max.	2 θ 1/2
5003R1C-CSA-A	AlGaInP	Red	Water clear	800	1500	25-30

Note:

1. θ 1/2 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 ± 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	λ_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	μA	$V_R=5\text{V}$

Note:

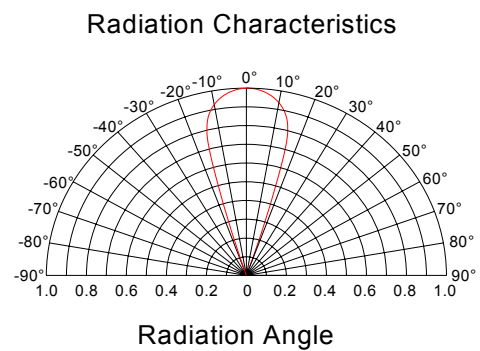
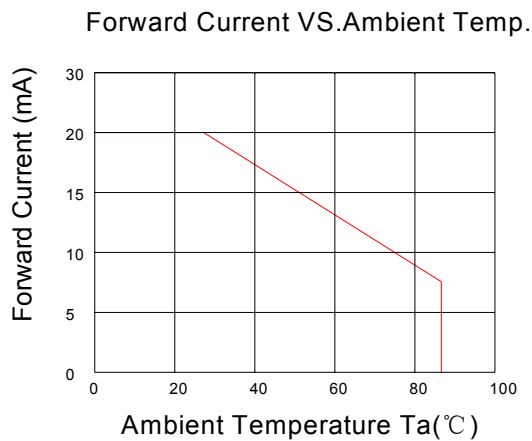
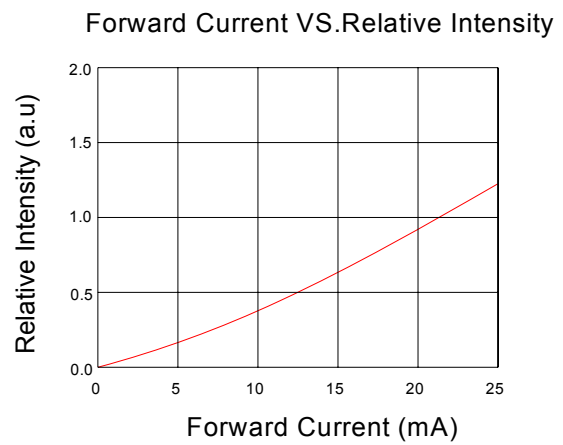
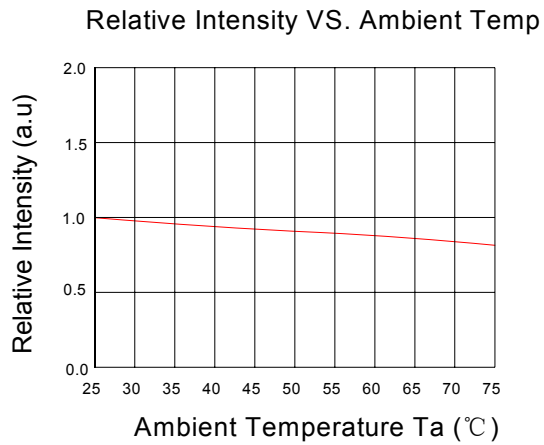
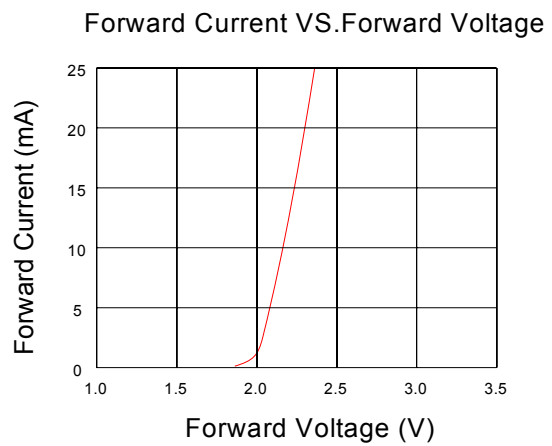
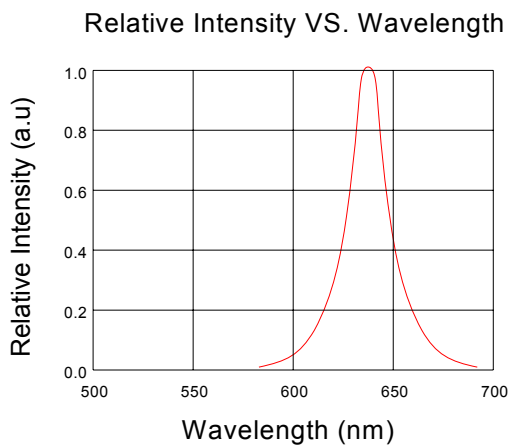
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



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Typical Electro-Optical Characteristics Curves





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