

# BEELED

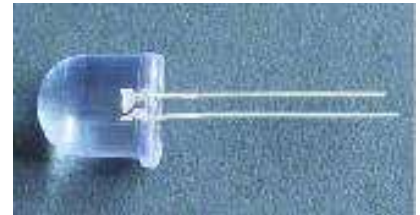
## СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

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MODEL: 10003R1C-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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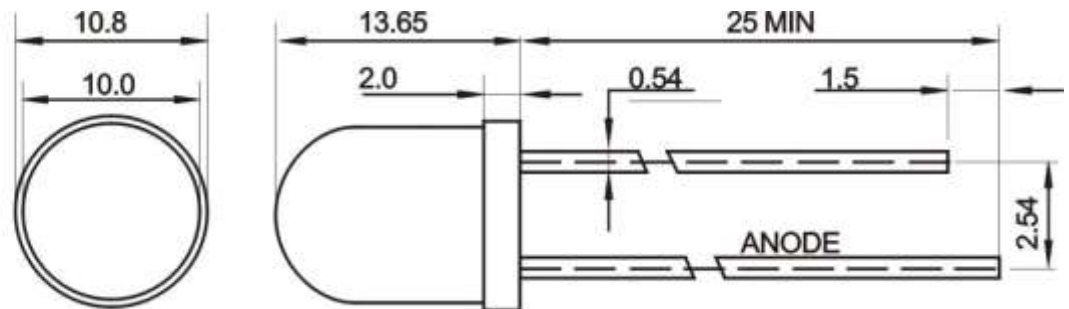
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### Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
10003R1C-CSA-A	AlGaInP	Red	Water clear

### Package Dimensions



UNIT:mm

### 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.



## СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_v$	800	---	1200	mcd	$I_F=20\text{mA}$ (Note1)
Viewing Angle	$2\theta_{1/2}$	---	25	---	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_p$	620	---	635	nm	$I_F=20\text{mA}$
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	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.

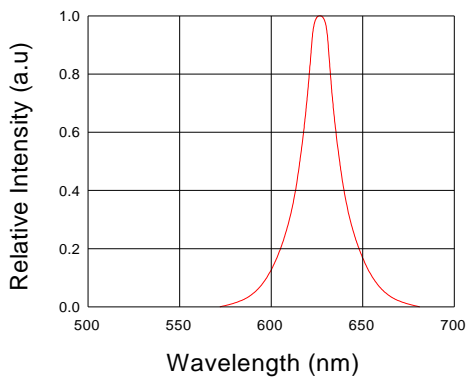


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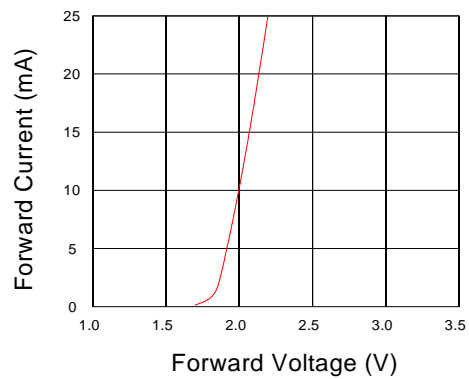
MODEL: 10003R1C-CSA-A

### Typical Electro-Optical Characteristics Curves

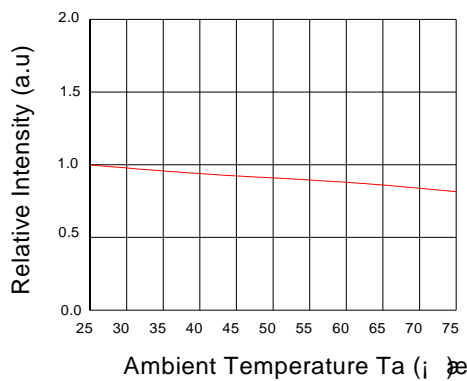
Relative Intensity VS. Wavelength



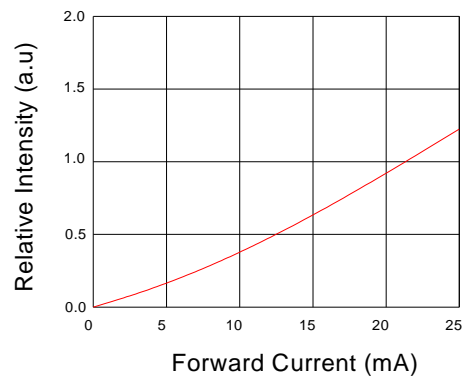
Forward Current VS. Forward Voltage



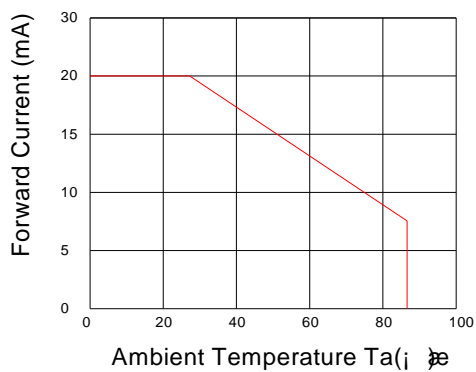
Relative Intensity VS. Ambient Temp



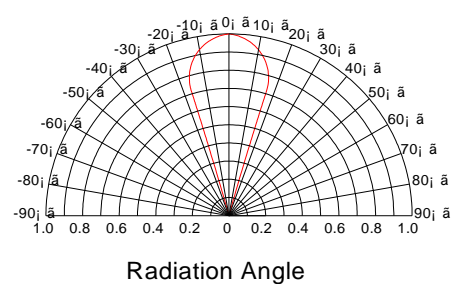
Forward Current VS. Relative Intensity



Forward Current VS. Ambient Temp.



Radiation Characteristics





## СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

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