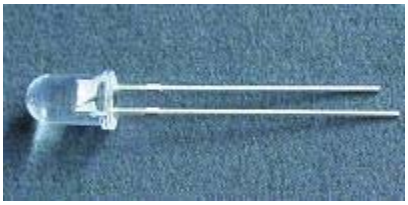
СВЕТОДИОДЫ BEELED - ТЕХНИЧЕСКОЕ ОПИСАНИЕ

MODEL：5034G3C-CSE-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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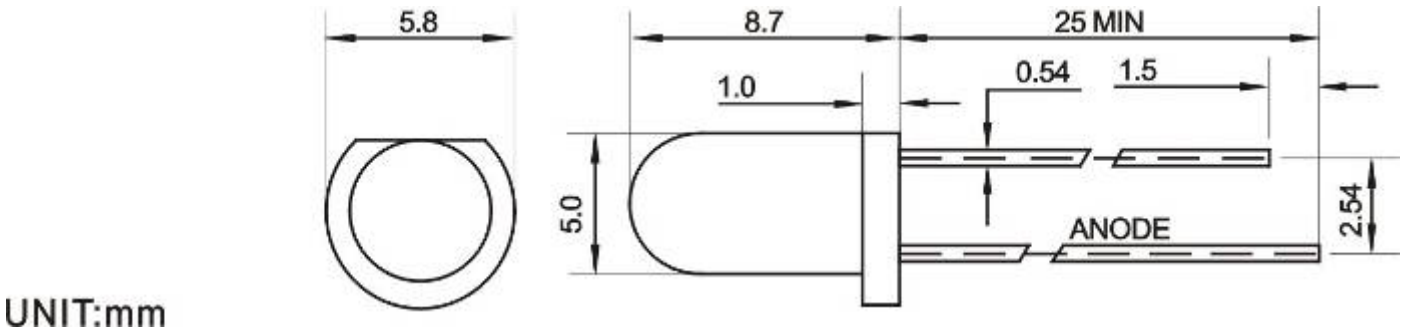
Device Selection Guide

LED Part No.	Chip		Lens Color	Iv(mcd)@20mA		Viewing Angle
	Material	Emitted Color		Min.	Max.	2θ1/2
5003G3C-CSE-B	InGaN	Green	Water clear	8000	11000	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 ±0.25 unless otherwise noted.

˙Specifications are subject to change without notice.

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Absolute Maximum Rating (T_a=25℃)

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current (1/10 Duty Cycle, 0.1ms Pulse Width.)	I_{FPM}	70	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	100	mW
Operating Temperature	Topr	-40～+80	℃
Storage Temperature	Tstg	-40～+100	℃
Lead Solder Temperature (2mm below package base.)	Tsol	260ºC for 3 seconds	℃

Electro-Optical Characteristics (T_a=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Peak Emission Wavelength	λp	520	---	530	nm	IF=20mA
Forward Voltage	V_F	2.9	---	3.5	V	IF=20mA
Reverse Current	I_R	---	---	10	μA	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.

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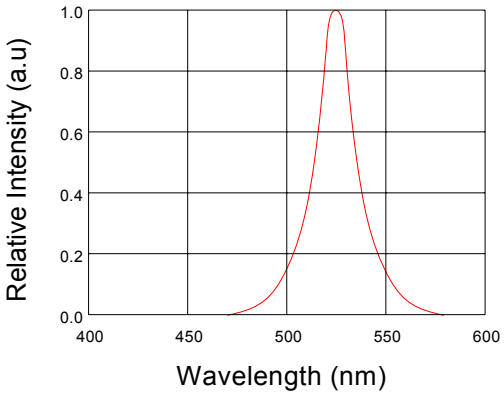
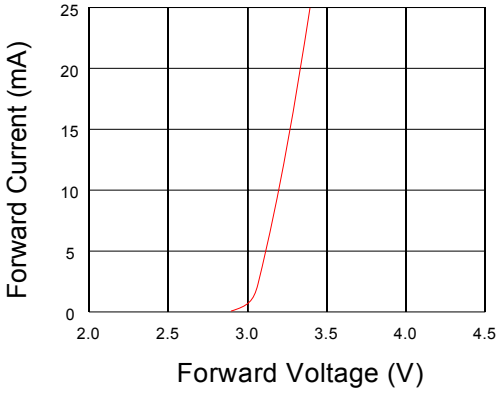
Typical Electro-Optical Characteristics Curves

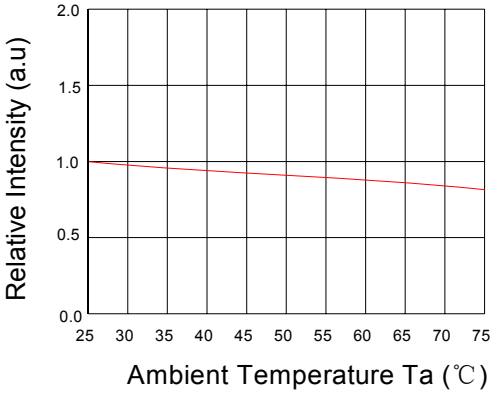
Relative Intensity VS. Wavelength



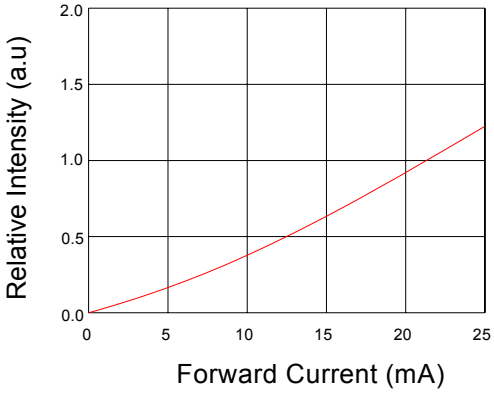
Forward Current VS.Forward Voltage



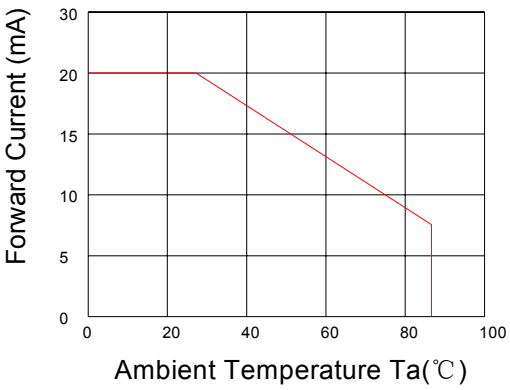
Relative Intensity VS. Ambient Temp



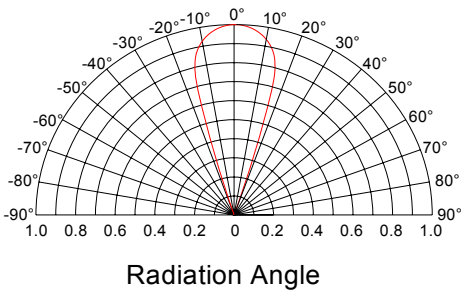
Forward Current VS.Relative Intensity



Forward Current VS.Ambient Temp.



Radiation Characteristics



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