СВЕТОДИОДЫ BEELED - ТЕХНИЧЕСКОЕ ОПИСАНИЕ

MODEL：5234B2C-ESB-B

Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle($2\theta_{1/2}$):70° /30°
- UV resistant epoxy
- Pb free

Descriptions

- This precision optical performance oval LED is specifically designed for passenger information signs
- This lamp has matched radiation patterns with,Red Or green color mixing color applications
- Superior performance in outdoor environment

Usage Notes:

- The ultra bright LED is an electrostatic insensitive device,so static electricity and surge will damage the LED.It is required to wear a wrist-band when handling the LED. All device, equipment,machinery, desk and ground must be properly grounded
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- Full color/video signs
- Message boards
- Variable message signs(VMS)
- Commercial outdoor advertising

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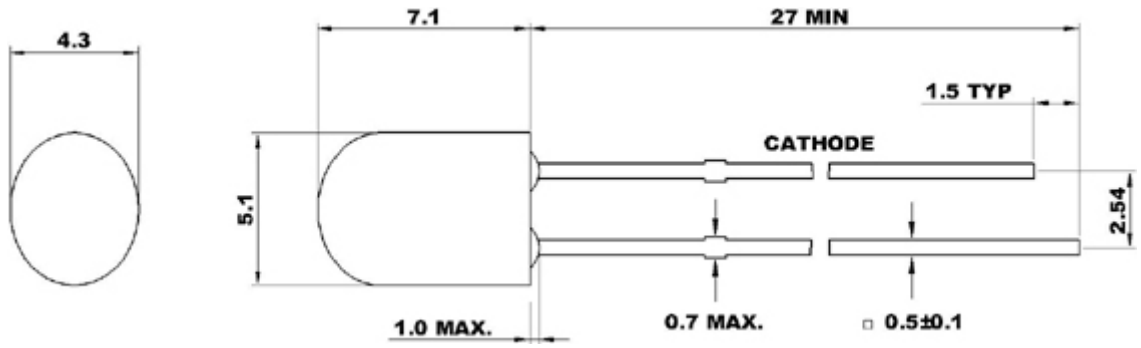
Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
5234B2C-ESB-B	InGaN	Blue	Water clear

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.

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Absolute Maximum Rating (T_a=25℃)

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	140	mW
Operating Temperature	Topr	-40～+80	℃
Storage Temperature	Tstg	-40～+100	℃
Soldering Heat (5s)	Tsol	260	℃

Electro-Optical Characteristics (T_a=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	1500	---	2300	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	X:70° Y:30°	---	Deg	(Note 2)
Peak Emission Wavelength	λp	460	465	470	nm	IF=20mA
Spectral Line Half-Width	△λ	20	25	30	nm	IF=20mA
Forward Voltage	V_F	2.9	---	3.3	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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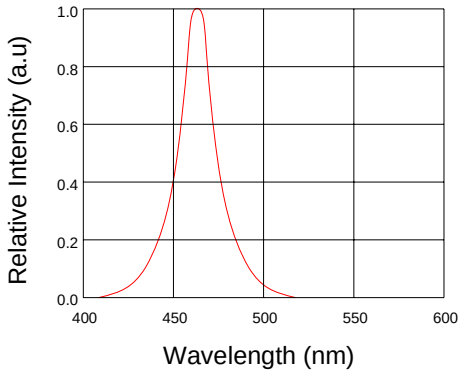
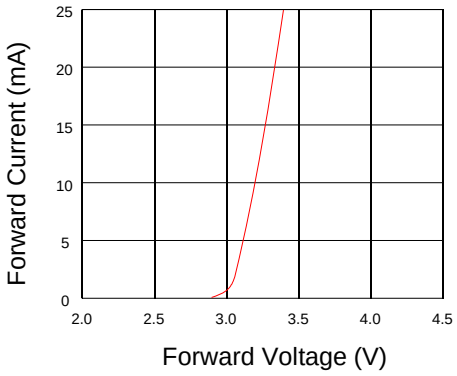
Typical Electro-Optical Characteristics Curves

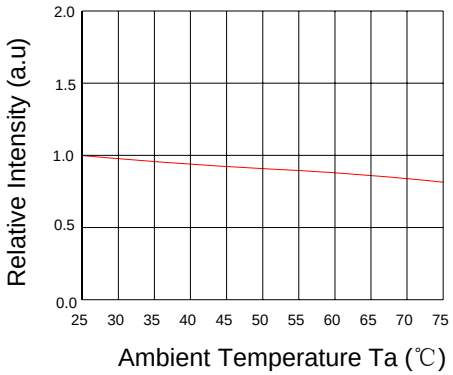
Relative Intensity VS. Wavelength



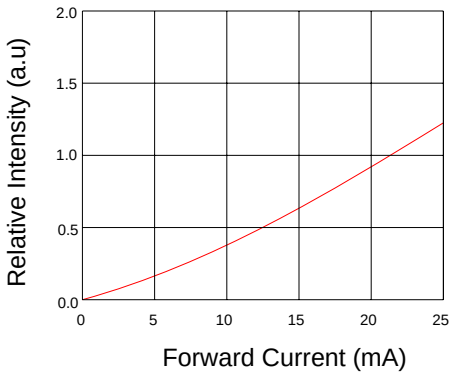
Forward Current VS.Forward Voltage



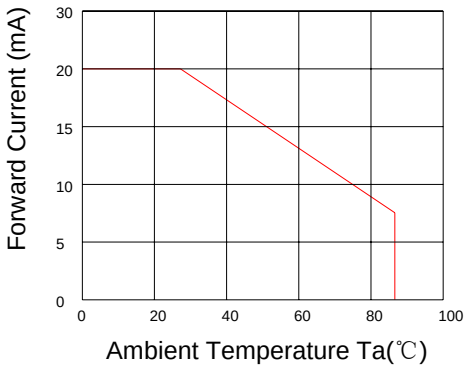
Relative Intensity VS. Ambient Temp



Forward Current VS.Relative Intensity



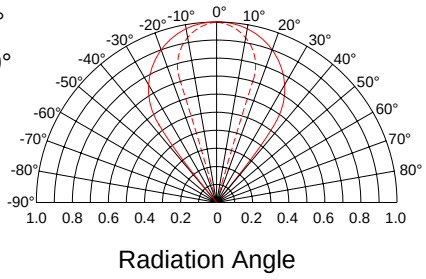
Forward Current VS.Ambient Temp.



Radiation Characteristics

X-X: —— 70°

Y-Y: ---- 30°



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