

# BEELED

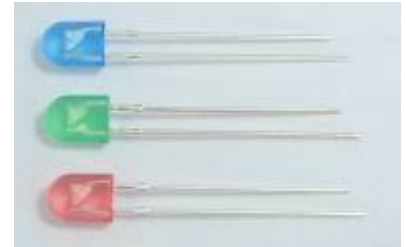
## BEELED -

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**MODEL:** 5234G3D-JSA-B

### Features

- High luminous intensity output
- Oval Shape
- Well defined spatial radiation
- Wide viewing angle( $2\theta_{1/2}$ ): $110^\circ / 40^\circ$
- 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

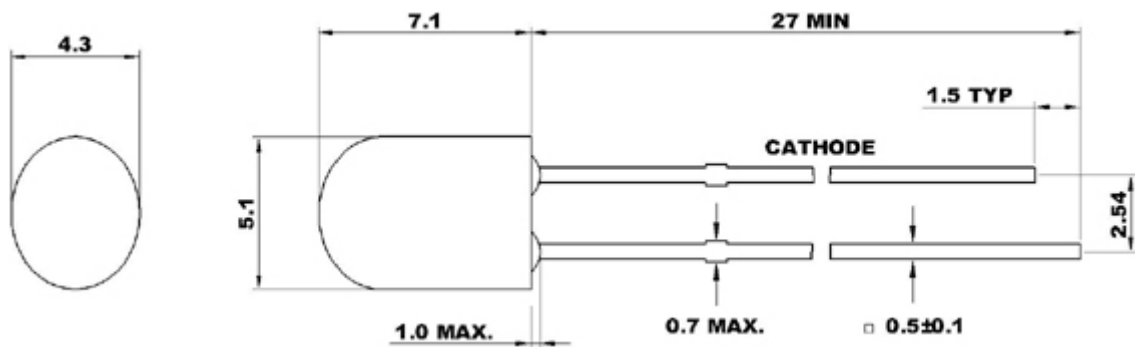
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### Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
5234G3D-JSA-B	InGaN	Green	Diffuse

### 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.

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

Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	$I_{\text{FPM}}$	50	mA
Forward Current	$I_{\text{FM}}$	20	mA
Reverse Voltage	$V_{\text{R}}$	5	V
Power Dissipation	$P_{\text{D}}$	150	mW
Operating Temperature	$T_{\text{opr}}$	-40~+80	$^{\circ}\text{C}$
Storage Temperature	$T_{\text{stg}}$	-40~+100	$^{\circ}\text{C}$
Soldering Heat (5s)	$T_{\text{sol}}$	260	$^{\circ}\text{C}$

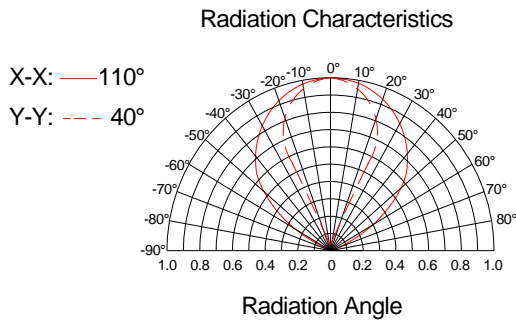
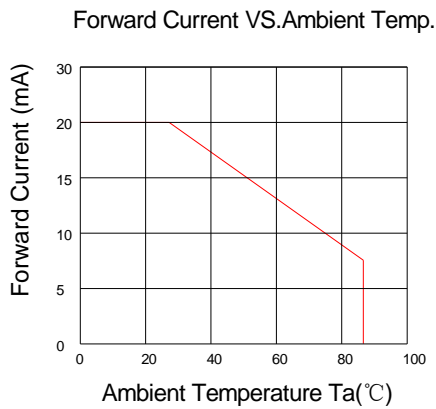
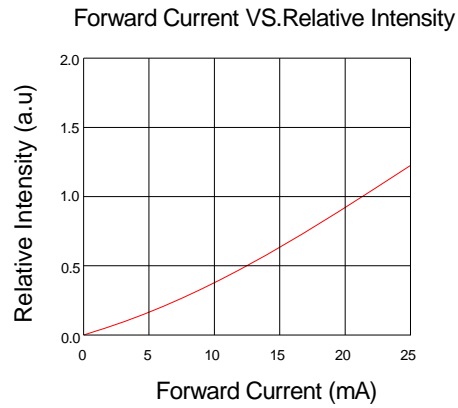
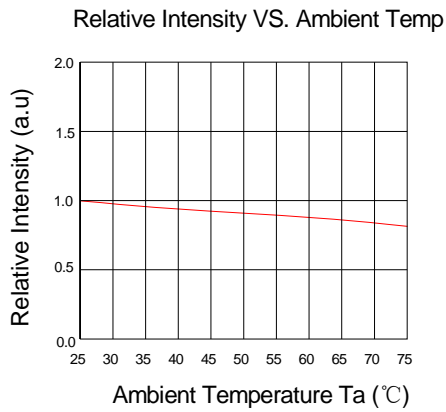
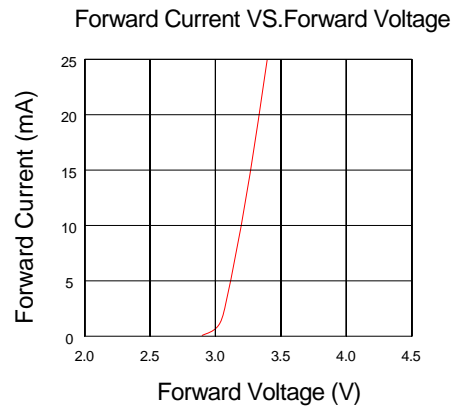
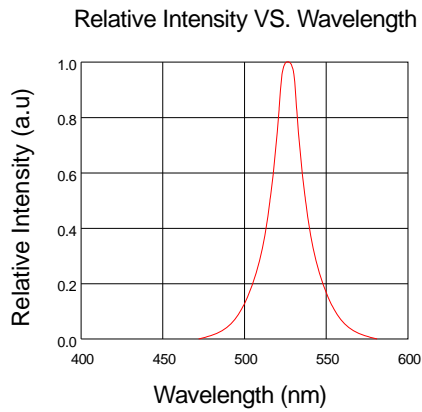
### Electro-Optical Characteristics ( $T_a=25^{\circ}\text{C}$ )

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	$I_{\text{v}}$	1800	---	2550	mcđ	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	X:110 $^{\circ}$ Y:40 $^{\circ}$	---	Deg	(Note 2)
Peak Emission Wavelength	$\lambda_{\text{p}}$	520	525	530	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	30	35	40	nm	IF=20mA
Forward Voltage	$V_{\text{F}}$	2.9	---	3.3	V	IF=20mA
Reverse Current	$I_{\text{R}}$	---	---	10	$\mu\text{A}$	VR=5V

#### Note:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  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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