



СВЕТОДИОДЫ BEELED – ТЕХНИЧЕСКОЕ ОПИСАНИЕ

MODEL: 3234R1C-ESC-D

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
- 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

- TV set
- Message boards
- Monitor
- Commercial outdoor advertising

Device Selection Guide



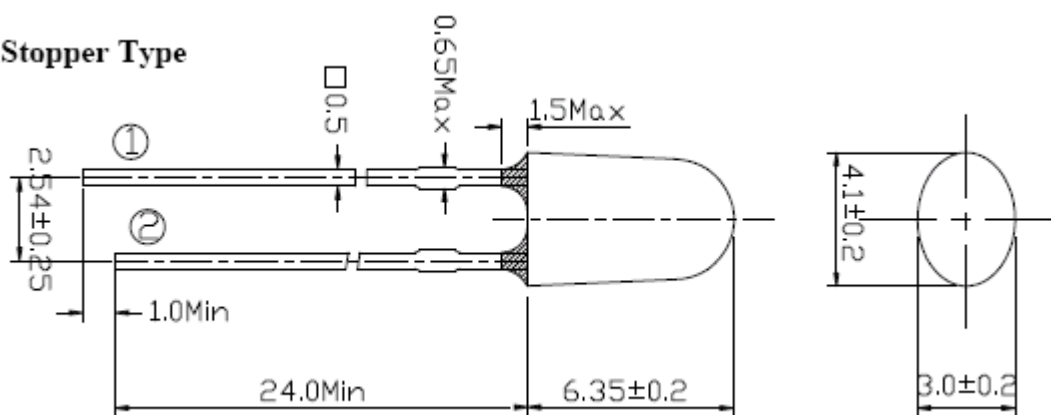
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LED Part No.	Chip		Lens Color
	Material	Emitted Color	
3234R1C-ESD-C	AlInGaP	Red	Water clear

Package Dimensions

No Stopper Type



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 ($T_a=25^\circ\text{C}$)



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Parameter	Symbol	Absolute Maximum Rating	Unit
Forward Pulse Current	I_{FPM}	100	mA
Forward Current	I_{FM}	30	mA
Reverse Voltage	V_R	5	V
Power Dissipation	P_D	120	mW
Operating Temperature	T_{opr}	-40~+80	°C
Storage Temperature	T_{stg}	-40~+100	°C
Soldering Heat (5s)	T_{sol}	260	°C

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_V	---	3500	4800	mcd	IF=20mA(Note 1)
Viewing Angle	$2\theta_{1/2}$	---	X:70° Y:30°	---	Deg	(Note 2)
Peak Emission Wavelength	λ_p	625	630	635	nm	IF=20mA
Dominant Wavelength	$\Delta\lambda$	---	631	---	nm	IF=20mA
Forward Voltage	V_F	1.9	---	2.3	V	IF=20mA
Reverse Current	I_R	---	---	10	μA	VR=5V

Note:

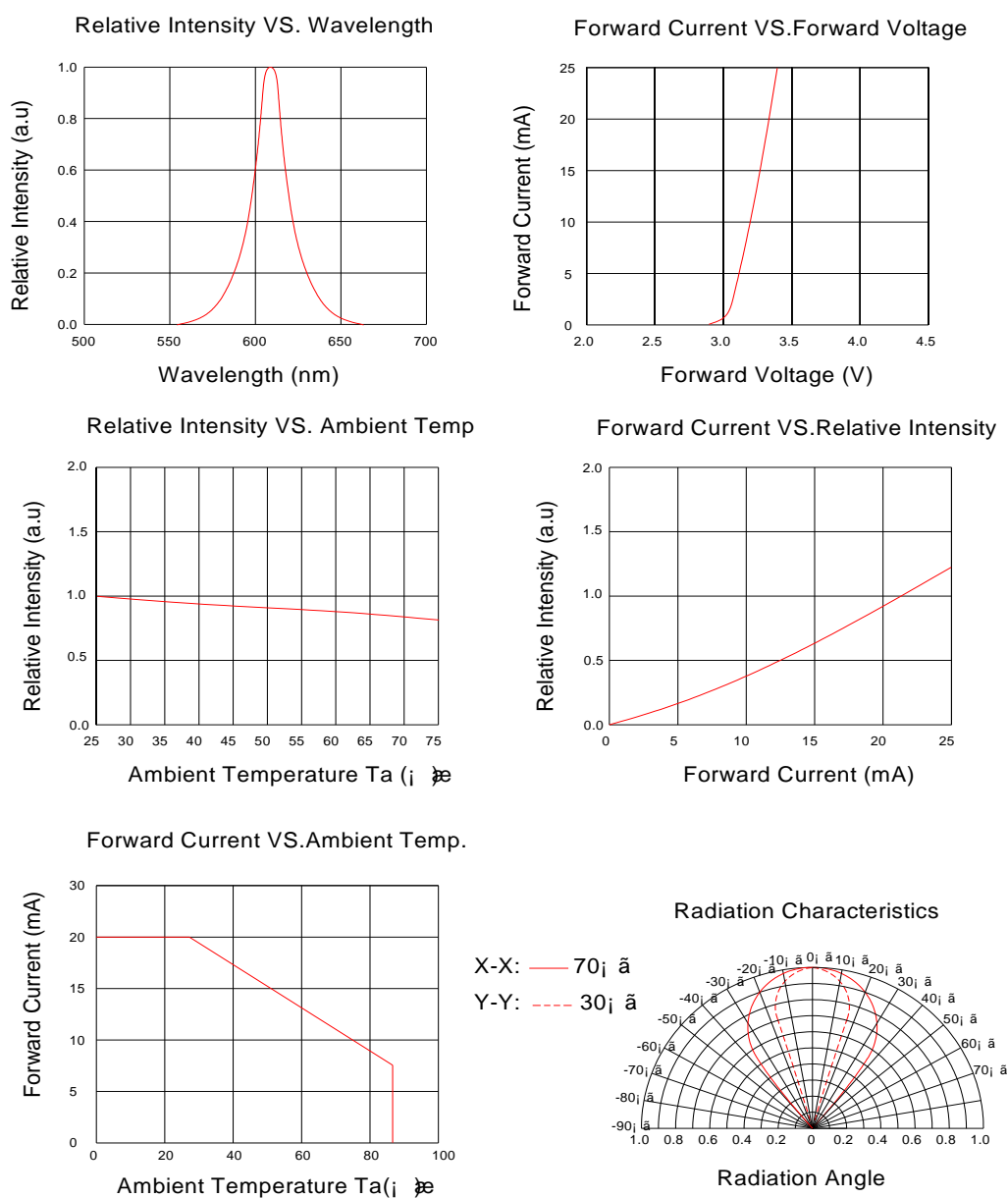
1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
2. $\theta_{1/2}$ is the off-axis angle at which the luminous intensity is half the axial luminous intensity.



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Typical Electro-Optical Characteristics Curves



Notes

1. Above specification may be changed without notice. HYLEED will reserve authority on



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material change for above specification.

2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. BEELED assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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