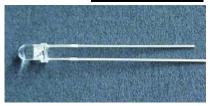


TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004K3C-CA



Features

'High reliability

'High radiant intensity

'Peak wavelength λp=940nm

Low forward voltage

Pb free

Descriptions

'HYLED Infrared Emitting Diode is a high intensity diode, molded in a blue transparent plastic package

The device is spectrally matched with phototransistor, photodiode and infrared receiver module

Usage Notes:

Surge will damage the LED

When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

Free air transmission system

Infrared remote control units with high power requirement

Smoke detector

Infrared applied system



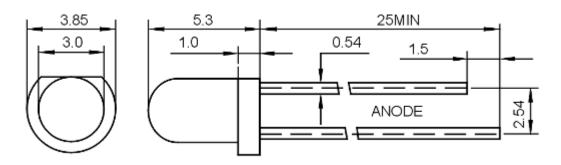
TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004K3C-CA

Device Selection Guide

LED Part No.	Cr	nip	Lens Color	
	Material	Emitted Color		
3004K3C-CA	AlGaAs	Infrared	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.



TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004K3C-CA

Electro-Optical Characteristics (Ta=25□)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Radiant intensity	Ee	7		12	mW/Sr	IF=20mA(Note1)
Viewing Angle	201/2		30		Deg	(Note 2)
Peak Emission Wavelength	λр		940		nm	IF=20mA
Spectral Line Half-Width	Δλ		45		nm	IF=20mA
Forward Voltage	V _F	1.2		1.5	V	IF=20mA
Reverse Current	I _R			10	μA	VR=5V

Note:

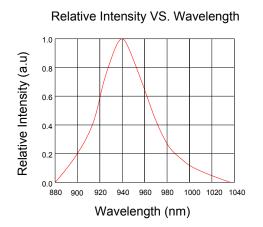
- 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- 2. θ 1/2 is the off-axis angle at which the luminous intensity is half the axial luminous intensity.

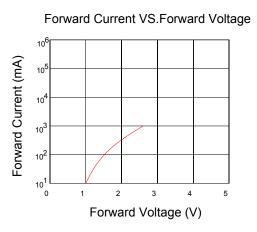


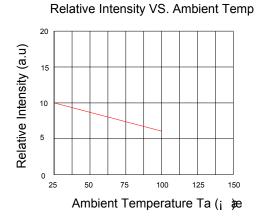
TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004K3C-CA

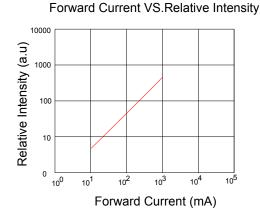
Typical Electro-Optical Characteristics Curves

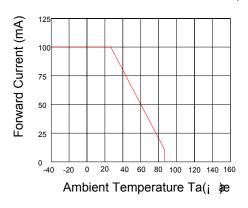


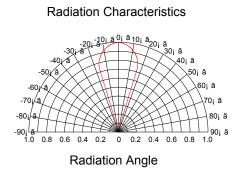




Forward Current VS.Ambient Temp.









TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004K3C-CA

Notes

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