



HUIYUAN ELECTRONIC CO.,LTD.

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 3004R4D-EPA-P

Features

- Choice of various viewing angles
- Low Power consumption
- General purpose leads
- Available on tape and reel.
- Reliable and robust
- The product itself will remain within RoHS compliant version.
- Pb free

Descriptions

- The LED lamps are available with different colors, intensities, epoxy colors, etc

Usage Notes:

- When using LED, it must use a protective resistor in series with DC current about 18mA

Applications

- TV set
- Monitor
- Telephone
- Computer

Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
3004R4D-EPA-P	GaP	Red	Color Diffused

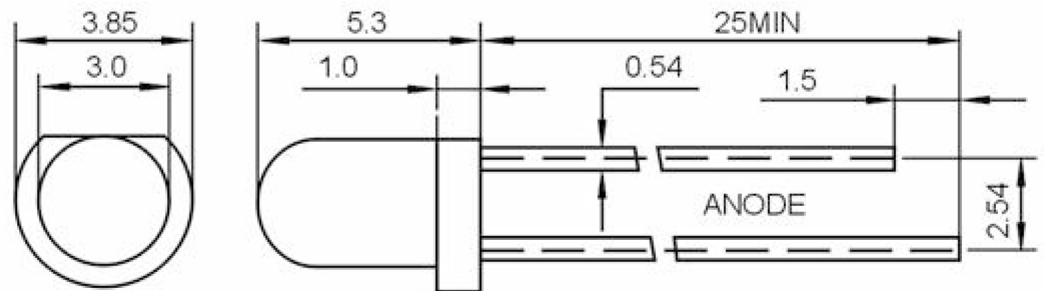


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Package Dimensions



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: 3004R4D-EPA-P****Absolute Maximum Rating ($T_a=25^{\circ}\text{C}$)**

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}	60	mW
Operating Temperature	T_{opr}	-40~+80	$^{\circ}\text{C}$
Storage Temperature	T_{stg}	-40~+100	$^{\circ}\text{C}$
Soldering Heat (5s)	T_{sol}	260	$^{\circ}\text{C}$

Note: *1:Soldering time \leq 5 seconds.**Electro-Optical Characteristics ($T_a=25^{\circ}\text{C}$)**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_{v}	5	---	10	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	60	---	Deg	(Note 2)
Peak Emission Wavelength	λ_{p}	---	640	---	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	nm	IF=20mA
Forward Voltage	V_{F}	1.8	---	2.4	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

