

HUIYUAN ELECTRONIC CO.,LTD.

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 5003R4C-BPC-P

Features

- High efficiency
- Low Power consumption
- General purpose leads
- · Selected minimum intensities
- · Available on tape and reel
- Pb free

Descriptions

- The series is specially designed for applications requiring higher brightness
- The LED lamps are available with different colors, intensities, epoxy colors, etc
- Superior performance in outdoor environment

Usage Notes:

- Surge will damage the LED
- When using LED, it must use a protective resistor in series with DC current about 20mA

Applications

- Status indicators
- Commercial use
- Advertising Signs
- Back lighting



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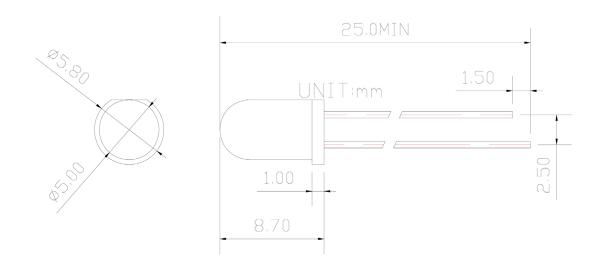
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Device Selection Guide

LED Doub No.	Cł	nip		
LED Part No.	Material	Emitted Color	Lens Color	
5003R4C-BPC-P	GaP	Red	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 (Ta=25°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	Topr	-40~+80	$^{\circ}$ C
Storage Temperature	Tstg	-40~+100	$^{\circ}$
Soldering Heat (5s)	Tsol	260	$^{\circ}$

Electro-Optical Characteristics (Ta=25°C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Luminous Intensity	Iv	50		100	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$		15		Deg	(Note 2)
Peak Emission Wavelength	λр		640		nm	IF=20mA
Spectral Line Half-Width	Δλ	15	20	25	nm	IF=20mA
Forward Voltage	V_{F}	1.8		2.4	V	IF=20mA
Reverse Current	I_R			10	μΑ	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.