



HUIYUAN ELECTRONIC CO.,LTD.
慧源电子有限公司

TECHNOLOGY DATA SHEET & SPECIFICATIONS

MODEL: 5003R2D-SLS

Features

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



Descriptions

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

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



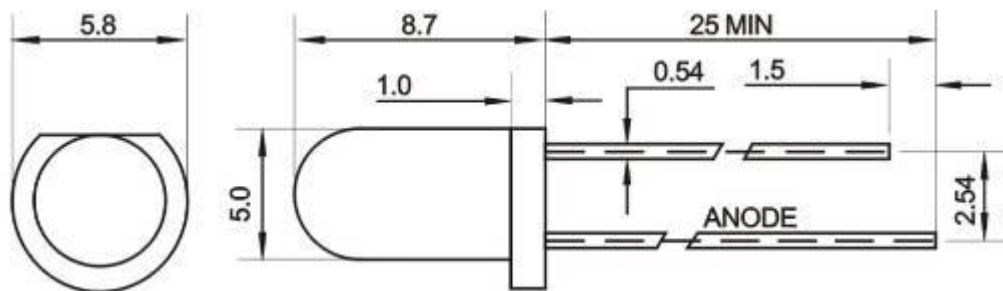
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Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
5003R2D-SLS	GaAsP	Red	Color Diffused

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

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}	140	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	$^{\circ}\text{C}$

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

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_{v}	40		60	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	40	60	Deg	(Note 2)
Peak Emission Wavelength	λ_{p}	630	---	650	nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$	15	20	25	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

