

MODEL : 2504R4D-KPA-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

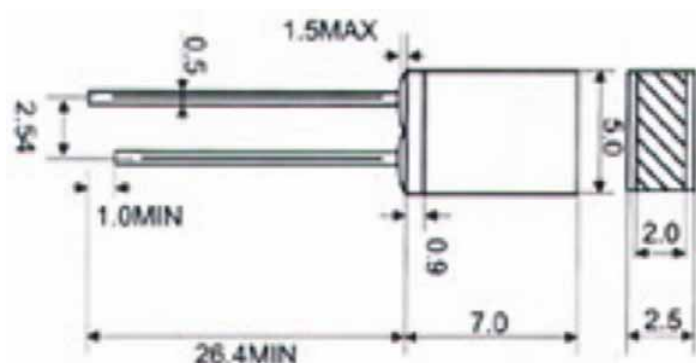
- Status indicators
- Commercial use
- Advertising Signs
- Back lighting

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Device Selection Guide

LED Part No.	Chip		Lens Color
	Material	Emitted Color	
2504R4D-KPA-P	GaP	Red	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.

MODEL : 2504R4D-KPA-P**Absolute Maximum Rating ($T_a=25$)**

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	
Storage Temperature	T_{stg}	-40 ~ +100	
Soldering Heat (5s)	T_{sol}	260	

Electro-Optical Characteristics ($T_a=25$)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	I_v	5	10	---	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	80	---	100	Deg	(Note 2)
Peak Emission Wavelength	λ_p	630	640	---	nm	IF=20mA
Spectral Line Half-Width	λ	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

