Datasheet

Item no. 1573695

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:

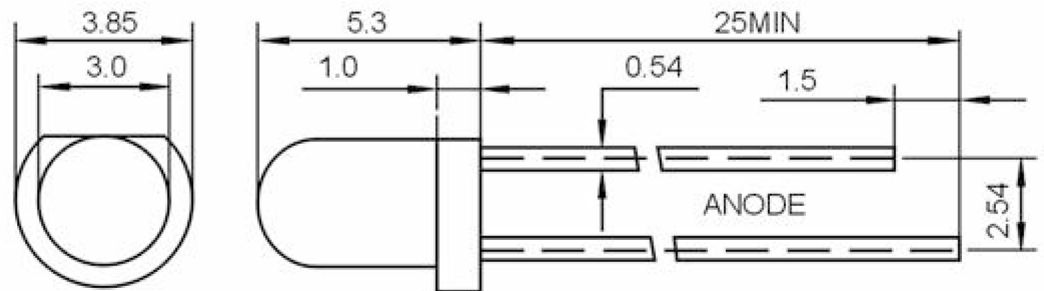• When using LED, it must use a protective resistor in series with DC current about 18mA

Applications

● TV set

● Monitor

● Telephone

● Computer

Device Selection Guide

	Chip		Lens Color
	Material	**Emitted Color**	
	GaP	Red	Color Diffused

Package Dimensions

UNIT:mm

3.85
3.0
5.3
1.0
25MIN
0.54
1.5
ANODE
2.54

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.

Absolute Maximum Rating (Ta=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	60	mW
Operating Temperature	Topr	-40～+80	℃
Storage Temperature	Tstg	-40～+100	℃
Soldering Heat (5s)	Tsol	260	℃

Note: *1:Soldering time ≦ 5 seconds.

Electro-Optical Characteristics (Ta=25℃)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	5	---	10	mcd	IF=20mA(Note1)
Viewing Angle	$2\theta_{1/2}$	---	60	---	Deg	(Note 2)
Peak Emission Wavelength	λp	---	640	---	nm	IF=20mA
Spectral Line Half-Width	△λ	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.

Typical Electro-Optical Characteristics Curves

Relative Intensity VS. Wavelength

Forward Current VS.Forward Voltage

Relative Intensity VS. Ambient Temp

Forward Current VS.Relative Intensity

Forward Current VS.Ambient Temp.

Radiation Characteristics