

Data Sheet

3 mm LED Kit

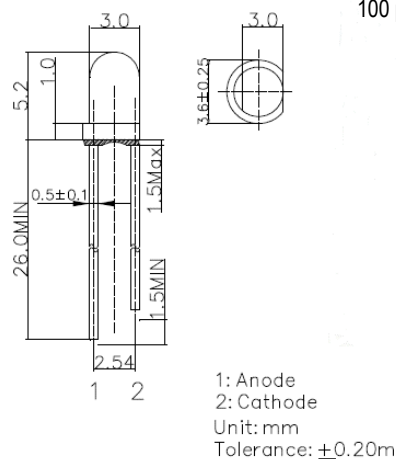
Description

- 100 pcs standard 3 mm LED are supplied in a storage box
- Easy to use and storage
- Widely applied to DIY projects, school science experiments, car decorations, etc.

Features

- 3 mm round standard 30° directivity
- UV resistant epoxy
- Red/Yellow/Yellow Green/Blue/Warm White
- Color diffused/Water clear

Outline Dimensions



Product Picture

100 pcs/Box (Dimensions: 90 x 6.5 x 30 mm)

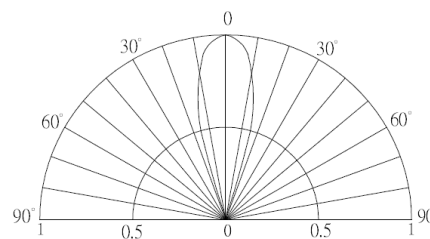


Technical data

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

Item	Symbol	Value		Unit
		B/M	R/Y/YG	
DC Forward Voltage	I_F	30	30	mA
Pulse Forward Current#	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	102	72	mW
Operating Temperature	T_{opr}	$-30 \sim +85$		$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +100$		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	260 $^\circ\text{C}$ / 5 sec		-

Directivity



Pulse width Max. 10 ms, Duty ratio max 1/10

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

3 mm LED	Red	Yellow	Yellow Green	Blue	Warm White
Light Color	Red	Yellow	Yellow Green	Blue	Warm White
Lens Color	Red Diffused	Yellow Diffused	Green Diffused	Blue Diffused	Water Clear
Wavelength*1/Color Temperature*2	620-640 nm	585-595 nm	565-575 nm	462.5-472.5 nm	2700-3300 K
Luminous Intensity(typ.)*3	330 mcd	420 mcd	55 mcd	2500 mcd	14400 mcd
Forward Voltage*4	1.8-2.4 V	1.8-2.4 V	1.8-2.4 V	2.7-3.4 V	2.7-3.4 V
Forward Current	20 mA	20 mA	20 mA	20 mA	20 mA
Viewing Angle(typ.)	30°	30°	30°	30°	30°
Quantity(pcs)/Box	20	20	20	20	20

*1 Tolerance of measurements of dominant wavelength is $\pm 1\text{ nm}$

*2 Tolerance of measurements of color temperature is $\pm 10\%$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$

*4 Tolerance of measurements of forward voltage is $\pm 0.1\text{ V}$