

Data Sheet

5 mm LED Kit

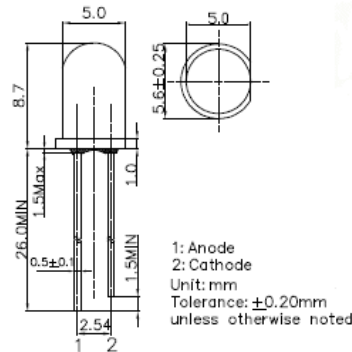
Description

- 100 pcs standard 5 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

- 5 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)

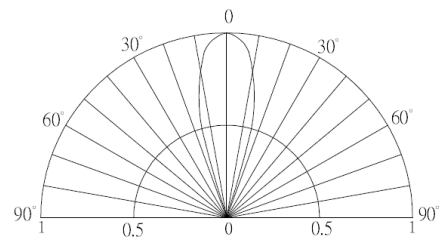


Technical data

Absolute Maximum Rating (Ta=25 °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 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C
Lead Soldering Temperature	T _{sol}	260 °C /5 sec		-

Directivity



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

Electrical-Optical Characteristics (Ta=25 °C)

5 mm LED					
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	420 mcd	420 mcd	90 mcd	2180 mcd	19000 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 ± 1 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 ± 0.1 V