OptoSupply
Light It Up

3mm Round Phoenix Red & Super Blue LED

OSRBMC3131A

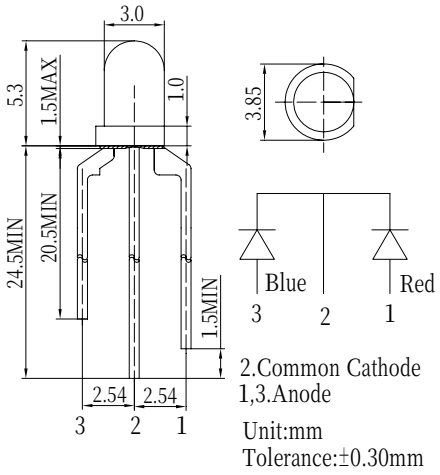
▪Features

- High Luminous LEDs
- 3mm Round Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type

▪Applications

- Toys
- Games
- Audio
- Other Lighting

▪Outline Dimension

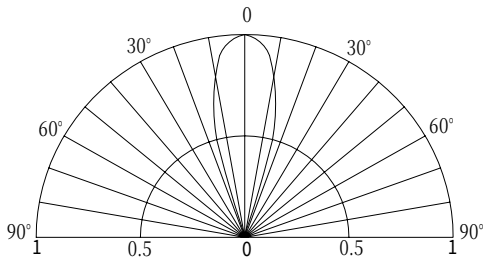


▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		Red	Blue	
DC Forward Current	I_F	30	30	mA
Pulse Forward Current*	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	78	108	mW
Operating Temperature	Topr	-30~ +85		℃
Storage Temperature	Tstg	-40 ~ +100		℃
Lead Soldering Temperature	Tsol	260℃/5sec		-

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

▪Directivity



▪Electrical -Optical Characteristics (Ta=25℃)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage	V_F (Red)	I_F=20mA	1.8	2.1	2.6	V
DC Forward Voltage	V_F (Blue)	I_F=20mA	2.9	3.1	3.6	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Domi. Wavelength*	λ_D (Red)	I_F=20mA	620	625	630	nm
	λ_D (Blue)	I_F=20mA	465	470	475	nm
Luminous Intensity*	Iv (Red)	I_F=20mA	5800	6500	-	mcd
	Iv (Blue)	I_F=20mA	2180	3000	-	mcd
50% Power Angle	$2\theta_{1/2}$	I_F=20mA	-	30	-	deg

*1 Tolerance of dominant wavelength is ±1nm

*2 Tolerance of luminous intensity is ±15%

LED & Application Technologies

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES