OptoSupply
Light It Up

3mm Round Red & Warm White LED

OSRMPA3131A

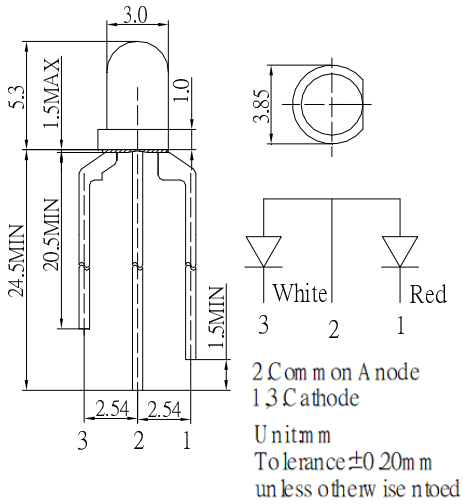
▪Features

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

▪Applications

- Toys
- Games
- Audio
- Other Lighting

▪Outline Dimension

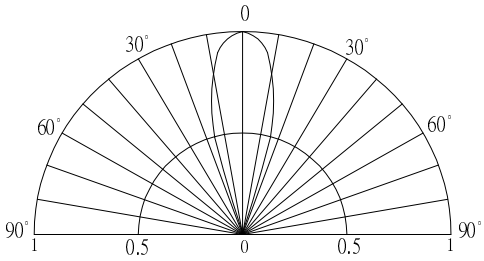


▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		Red	White	
DC Forward Current	I_F	50	30	mA
Pulse Forward Current#	I_{FP}	130	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	130	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*1	V_F (Red)	I_F=20mA	-	2.1	2.6	V
	V_F (W)	I_F=20mA	-	3.1	3.6	V
DC Reverse Current	I_R	V_R=5V	-	-	10	μA
Domi. Wavelength*2	λ_D (Red)	I_F=20mA	620	625	630	nm
Color Temperature*3	CCT (W)	I_F=20mA	2700	3000	3300	K
Luminous Intensity*4	Iv (Red)	I_F=20mA	3000	4200	-	mcd
	Iv (W)	I_F=20mA	3000	4200	-	mcd
50% Power Angle	$2\theta_{1/2}$	I_F=20mA	-	30	-	deg

*1 Tolerance of measurements of forward voltage is±0.1V
*2 Tolerance of measurements of dominant wavelength is ±1nm
*3 Tolerance of measurements of color temperature ±10%
*4 Tolerance of measurements of luminous intensity is ±15%

LED & Application Technologies

ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

REACH The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES