OptoSupply
Light It Up

5.0*5.0*7.0mm Rectangular RGB LED

OSTAMC7NE1B

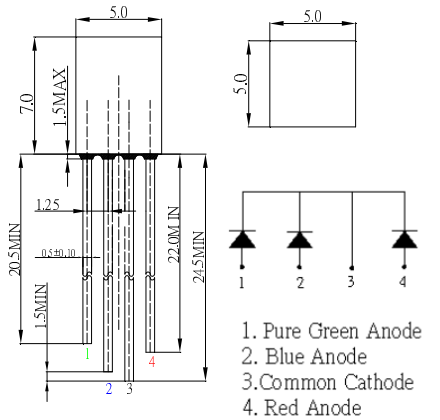
▪Features

- High Luminous Output
- 5.0*5.0*7.0mm Rectangular
- Water Clear Type
- Common Cathode Type

▪Applications

- Toys
- Games
- Audio
- Other Lighting

▪Outline Dimension



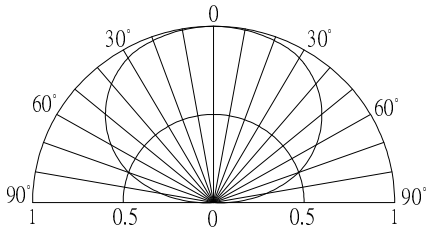
1. Pure Green Anode
2. Blue Anode
3.Common Cathode
4. Red Anode
Unit:mm
Tolerance:±0.20mm
unless otherwise noted

▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		Red	Green/Blue	
DC Forward Current	I_F	30	30	mA
Pulse Forward Current#	I_{FP}	120	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	72	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 **(R)**	I_F=20mA	-	2.1	2.6	V
	V_F **(B/G)**	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
	λ_D(Blue)	I_F=20mA	520	525	530	nm
	λ_D(Green)	I_F=20mA	465	470	475	nm
Luminous Intensity*3	**Iv(Red)**	I_F=20mA	500	750	-	mcd
	Iv(Blue)	I_F=20mA	330	500	-	mcd
	Iv(Green)	I_F=20mA	750	1120	-	mcd
50% Power Angle	$2\theta_{1/2}$	I_F=20mA	-	140	-	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 luminous intensity is ±15%