



OptoSupply

Light It Up

5mm Flat Red & Blue& Pure Green LED

OSTAPA57E2A

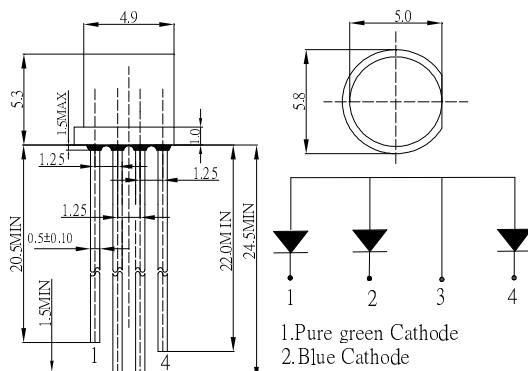
■Features

- High Luminous LEDs
- 5mm Flat Standard Directivity
- White Diffused Type
- Common Anode Type

■Applications

- Toys
- Games
- Audio
- Other Lighting

■Outline Dimension



- 1.Pure green Cathode
- 2.Blue Cathode
- 3.Common Anode
- 4.Red Cathode

Unit:mm

Tolerance: ± 0.20 mm

unless otherwise noted

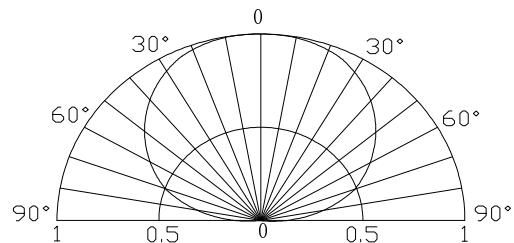
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		Red	Blue/Green	
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	T _{opr}	-30 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C
Lead Soldering Temperature	T _{sol}	260 °C/5sec		-

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage* ₁	V _{F(R)}	I _F =20mA	1.8	2.0	2.6	V
	V _{F(B/G)}	I _F =20mA	2.9	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	465	470	475	nm
	λ _D (Green)	I _F =20mA	520	525	530	nm
Luminous Intensity* ₃	I _v (Red)	I _F =20mA	500	750	-	mcd
	I _v (Blue)	I _F =20mA	330	500	-	mcd
	I _v (Green)	I _F =20mA	750	1120	-	mcd
50% Power Angle	2θ _{1/2}	I _F =20mA	-	140	-	deg

*₁ Tolerance of measurements of forward voltage is ± 0.1 V

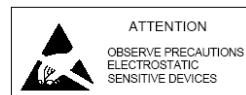
*₂ Tolerance of measurements of dominant wavelength is ± 1 nm

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

LED & Application Technologies



REACH
The new EU chemicals legislation



Ver.a.1.1