



OptoSupply
Light It Up

2.5*5.0*8.7mm Rectangular Red & Pure Green & Blue LED

OSTBMA7RA1B

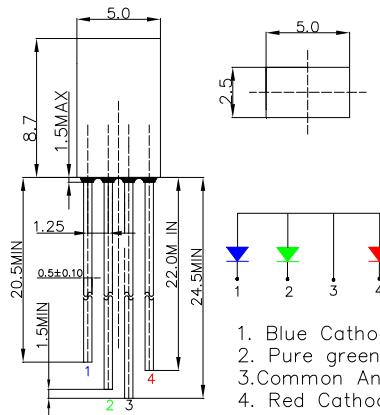
■Features

- High Luminous Output
- 2.5*5.0*8.7mm Rectangular
- Water Clear Type
- Common Anode Type

■Applications

- TV Set
- Telephone
- Audio
- Circuit Board

■Outline Dimension



1. Blue Cathode
 2. Pure green Cathode
 3. Common Anode
 4. Red Cathode
- Unit: mm
Tolerance: $\pm 0.20\text{mm}$
unless otherwise noted

■Absolute Maximum Rating (Ta=25°C)

(Ta=25°C)

Item	Symbol	Value		Unit
		Red	Green/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	72	102	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

■Electrical -Optical Characteristics (Ta=25°C)

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage* ₁	V _{F(R)}	I _F =20mA	-	2.1	2.4	V
	V _{F(B/G)}	I _F =20mA	-	2.9	34	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 (Green)	I _F =20mA	520	525	530	nm
	λ _D (Blue)	I _F =20mA	465	470	475	nm
Luminous Intensity* ₃	I _v (Red)	I _F =20mA	750	1120	-	mcd
	I _v (Green)	I _F =20mA	1120	1560	-	mcd
	I _v (Blue)	I _F =20mA	500	750	-	mcd
50% Power Angle	2θ _{1/2}	I _F =20mA	-	100	-	deg

*₁ Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$

*₂ Tolerance of measurements of dominant wavelength is $\pm 1\text{nm}$

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

LED & Application Technologies



REACH
The new EU chemicals legislation



VER A.0