Bi-Color Multi-Voltage LED
8mm Round LED (3-Pin)
OSXXXC8162A-VV

![OptoSupply Logo - Light It Up]

■Description

This LED is built with two different or same color LEDs. It builds with resistors to operate with wide operation voltage of DC3-15V.

■Features

- Wide Input Voltage
- Cost Saving and Space Saving
- White Diffused type
- Bi-color Common Cathode Type

■Applications

- Toys/Game/Audio
- TTL/Cmos Compatible
- Arduino/Pi Pico/Steam Kit
- Other Electronics Products

■Outline Dimension

LED with built-in resistor

2.Common Cathode
1,3.Anode
Unit: mm
Tolerance: ±0.20mm
unless otherwise noted

■Absolute Maximum Rating　(Ta=25℃)

Item	Symbol	Value	Unit
DC Forward Voltage	V_F	15	V
Reverse Voltage	V_R	12	V
Power Dissipation	P_D	190	mW
Operating Temperature	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

■Electrical -Optical Characteristics　(Ta=25℃)

Color	I_F (mA)			Iv(mcd)*			λD(nm)/CCT(K)*			θ1/2(deg)
	Min.	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
					V_F =9V					
Red	-	7.5	-	-	150	-	620	625	630	
Yellow	-	7.5	-	-	150	-	585	590	595	
Blue	-	8.0	-	-	100	-	465	470	475	
Pure Green	-	8.0	-	-	400	-	520	525	530	60
Cool White	-	8.0	-	-	400	-	CCT:8500-18000K			
Warm White	-	8.0	-	-	400	-	CCT:2700-3300K			

■Directivity

■Optical Characteristic Curves

■Part Number

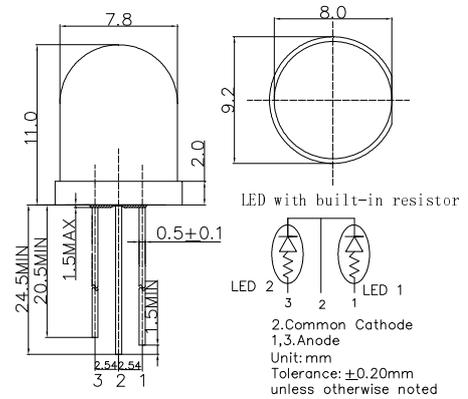| Color	Red	Yellow	Pure Green	Blue
Red	OSRRMC8162A-VV	OSRYMC8162A-VV	OSRPMC8162A-VV	OSRBMC8162A-VV
Yellow	OSRYMC8162A-VV	OSYYMC8162A-VV	OSYPMC8162A-VV	OSYBMC8162A-VV
Pure Green	OSRPMC8162A-VV	OSYPMC8162A-VV	OSPPDC8162A-VV	OSPBDC8162A-VV
Blue	OSRBMC8162A-VV	OSYBMC8162A-VV	OSPBDC8162A-VV	OSBBDC8162A-VV
Cool White	OSRWMC8162A-VV	OSYWMC8162A-VV	OSPWDC8162A-VV	OSBWDC8162A-VV
Warm White	OSRMMC8162A-VV	OSYMMC8162A-VV	OSPMDC8162A-VV	OSBMDC8162A-VV

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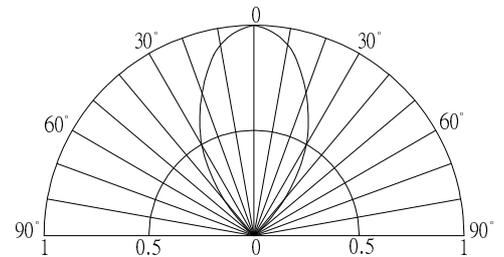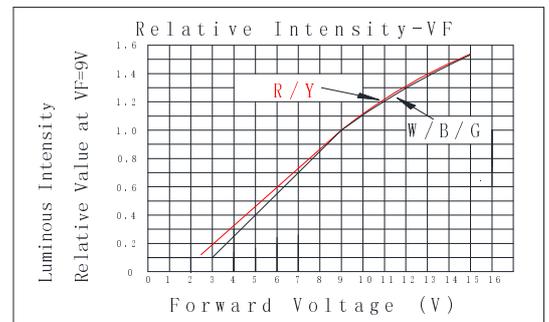*3 Tolerance of measurements of luminous intensity is ±15%　　*4 Tolerance of measurements of forward voltage is ±0.1V

LED & Application Technologies

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