

■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

■Absolute Maximum Rating

(Ta=25°C)

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	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

■Electrical -Optical Characteristics

(Ta=25°C)

Color	I _F (mA)			I _v (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	60
Yellow	-	7.5	-	-	150	-	585	590	595	
Blue	-	8.0	-	-	100	-	465	470	475	
Pure Green	-	8.0	-	-	400	-	520	525	530	
Cool White	-	8.0	-	-	400	-	CCT:8500-18000K			
Warm White	-	8.0	-	-	400	-	CCT:2700-3300K			

■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

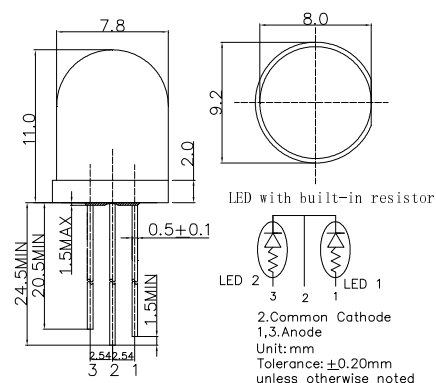
*1 Tolerance of measurements of chromaticity coordinates is $\pm 10\%$

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

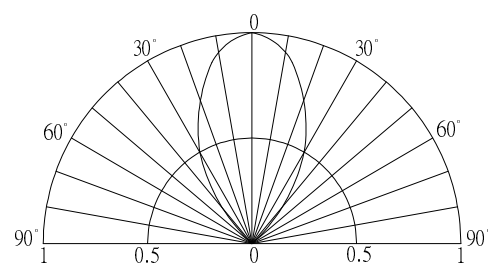
*2 Tolerance of measurements of dominant wavelength is $\pm 1nm$

*4 Tolerance of measurements of forward voltage is $\pm 0.1V$

■Outline Dimension



■Directivity



■Optical Characteristic Curves

