

■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.

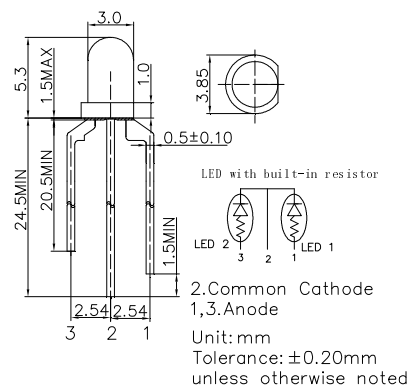
■Features

- Wide Input Voltage
- Cost Saving and Space Saving
- Water Clear Type
- Bi-color Common Cathode Type

■Applications

- Toys/Game/Audio
- TTL/Cmos Compatible
- Arduino/Pi Pico/Steam Kit
- Other electronics products

■Outline Dimension



■Absolute Maximum Rating

(Ta=25°C)

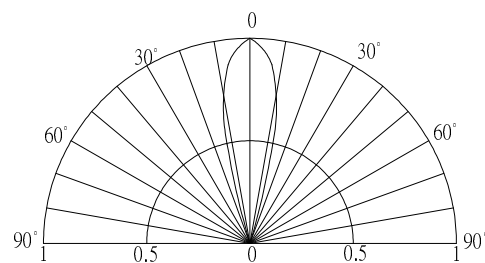
Item	Symbol	Value	Unit
DC Forward Voltage	V_F	15	V
Reverse Voltage	V_R	12	V
Power Dissipation	P_D	190	mW
Operating Temperature	T_{opr}	-30 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
Lead Soldering Temperature	T_{sol}	260°C/5sec	-

■Electrical -Optical Characteristics

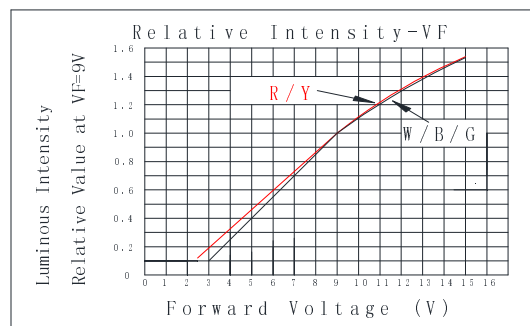
(Ta=25°C)

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	-	-	2180	-	620	625	630	30
Yellow	-	7.5	-	-	2180	-	585	590	595	
Blue	-	8.0	-	-	1560	-	465	470	475	
Pure Green	-	8.0	-	-	4200	-	520	525	530	
Cool White	-	8.0	-	-	4200	-	CCT:8000-18000K			
Warm White	-	8.0	-	-	4200	-	CCT:2700-3300K			

■Directivity



■Optical Characteristic Curves



■Part Number

Color	Red	Yellow	Pure Green	Blue
Red	OSRRMC3131A-VV	OSRYMC3131A-VV	OSRPMC3131A-VV	OSRBMC3131A-VV
Yellow	OSRYMC3131A-VV	OSYYMC3131A-VV	OSYPMC3131A-VV	OSYBMC3131A-VV
Pure Green	OSRPMC3131A-VV	OSYPMC3131A-VV	OSPPDC3131A-VV	OSPBDC3131A-VV
Blue	OSRBMC3131A-VV	OSYBMC3131A-VV	OSPBDC3131A-VV	OSBBDC3131A-VV
Cool White	OSRWMC3131A-VV	OSYWMC3131A-VV	OSPWDC3131A-VV	OSBWDC3131A-VV
Warm White	OSRMMC3131A-VV	OSYMMC3131A-VV	OSPMDC3131A-VV	OSBMDC3131A-VV

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

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

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

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