

■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.

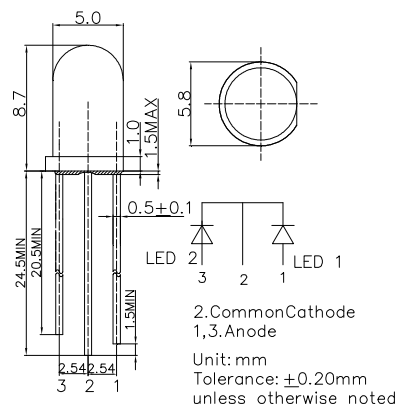
■Features

- 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



■Absolute Maximum Rating

($T_a=25^\circ\text{C}$)

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}	$-30 \sim +85$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +100$	$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	$260^\circ\text{C}/5\text{sec}$	-

■Electrical -Optical Characteristics

($T_a=25^\circ\text{C}$)

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	-	-	220	-	620	625	630	50
Yellow	-	7.5	-	-	220	-	585	590	595	
Blue	-	8.0	-	-	150	-	465	470	475	
Pure Green	-	8.0	-	-	750	-	520	525	530	
Cool White	-	8.0	-	-	750	-	CCT:8000-18000K			
Warm White	-	8.0	-	-	750	-	CCT:2700-3300K			

■Part Number

Color	Red	Yellow	Pure Green	Blue
Red	OSRRMC5A52A-VV	OSRYMC5A52A-VV	OSRPMC5A52A-VV	OSRBMC5A52A-VV
Yellow	OSRYMC5A52A-VV	OSYYMC5A52A-VV	OSYPMC5A52A-VV	OSYBMC5A52A-VV
Pure Green	OSRPMC5A52A-VV	OSYPMC5A52A-VV	OSPDC5A52A-VV	OSPBDC5A52A-VV
Blue	OSRBMC5A52A-VV	OSYBMC5A52A-VV	OSPBDC5A52A-VV	OSBBDC5A52A-VV
Cool White	OSRWMC552A-VV	OSYWMC5A52A-VV	OSPWDC5A52A-VV	OSBWDC5A52A-VV
Warm White	OSRMMC5A52A-VV	OSYMMC5A52A-VV	OSPMDC5A52A-VV	OSBMDC5A52A-VV

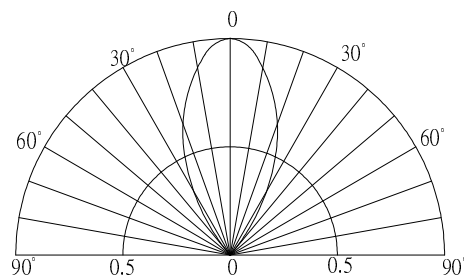
*1 Tolerance of measurements of chromaticity coordinates is $\pm 10\%$

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

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

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

■Directivity



■Optical Characteristic Curves

