

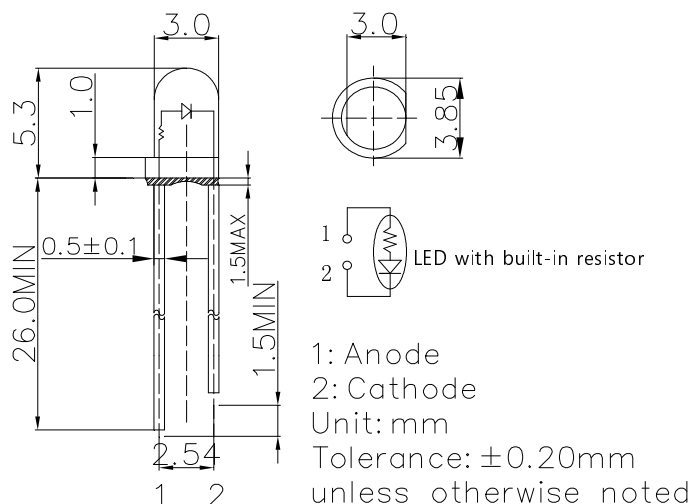
■ Features

- 3mm Round Standard Directivity
- Wide Input Voltage Range (DC3-15V)
- With Built-in Resistor, Direct Use
- Cost Effective (Saves Space and Resistor Cost)
- UV Resistant Epoxy
- Water Clear Type

■ Applications

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

■ Outline Dimension

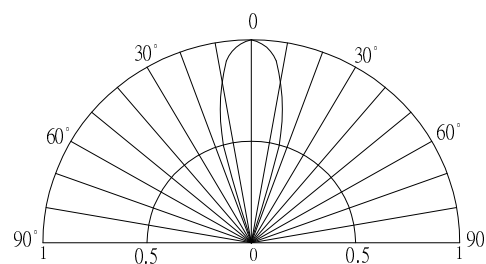


■ Absolute Maximum Rating

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

Item	Symbol	Value	Unit
DC Forward Voltage	V_F	16	V
Reverse Voltage	V_R	12	V
Power Dissipation	P_D	208	mW
Operating Temperature	T_{opr}	$-30 \sim +85$	$^\circ\text{C}$
Storage Temperature	T_{stg}	$-30 \sim +85$	$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	$260^\circ\text{C}/5\text{sec}$	-

■ Directivity



■ Electrical -Optical Characteristics ($T_a = 25^\circ\text{C}$)

Part Number	Color			I_F (mA)*			I_v (mcd)*			λ_D (nm)*			2 θ 1/2(deg)
				Min	Typ.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$V_F = 9\text{V}$			$V_F = 9\text{V}$			$V_F = 9\text{V}$			
OSW54K3131A-VVLED	White	W		-	7.5	13	-	4200	-	8500-18000K(X:0.27,Y:0.28)			30
OSM54K3131A-VVLED	Warm White	M		-	7.5	13	-	3500	-	2700-3200K(X:0.45,Y:0.41)			30
OSB5DA3131A-VVLED	Blue	B		-	7.5	13	-	1560	-	465	470	475	30
OSG58A3131A-VVLED	Pure Green	G		-	7.5	13	-	4200	-	520	525	530	30
OSY5PA3131A-VVLED	Yellow	Y		-	8	13	-	2180	-	585	590	595	30
OSO5PA3131A-VVLED	Orange	O		-	8	13	-	2180	-	600	605	610	30
OSR5PA3131A-VVLED	Red	R		-	8	13	-	2180	-	620	625	630	30

*1 Tolerance of measurements of domi. wavelength is $\pm 1\text{nm}$

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

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

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

InGaN and Si Resistor LED

TYPICAL ELECTRICAL/OPTICAL CHARACTERISTIC CURVES

