

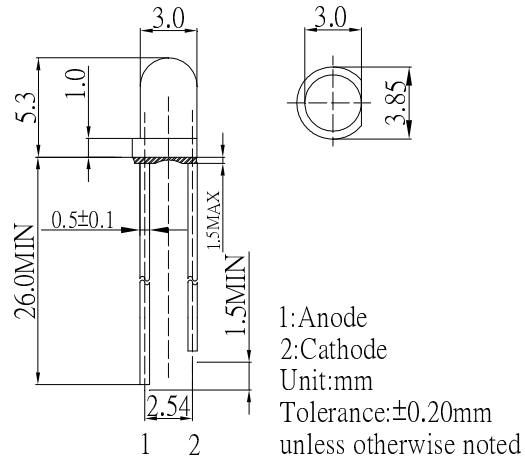
■ Features

- High Luminous LEDs
- Low Power Consumption
- UV Resistant Epoxy
- Specified at $I_F = 1\text{ mA}$
- Water Clear Type

■ Applications

- Background illumination
- Communications equipment
- Low power DC circuits
- General lighting purposes

■ Outline Dimension



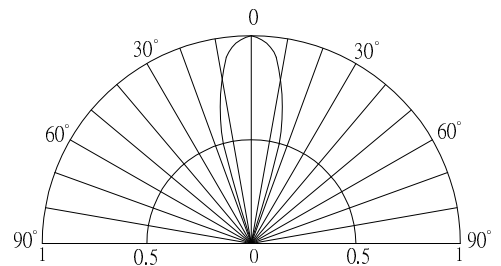
■ Absolute Maximum Rating

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

Item	Symbol	Value		Unit
		W/M/B/PG	YG/Y/O/R	
DC Forward Current	I_F	30	30	mA
Pulse Forward Current#	I_{FP}	100	100	mA
Reverse Voltage	V_R	5	5	V
Power Dissipation	P_D	102	66	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}	$260^\circ\text{C}/5\text{sec}$		-

#Pulse width Max.10ms Duty ratio max 1/10

■ Directivity



■ Electrical -Optical Characteristics

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

Part Number	Color			V_F (V)			I_R (μA)	I_v (mcd)			λ_D (nm)			$\theta_{1/2}$ (deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$I_F = 1\text{ mA}$			$V_R = 5\text{ V}$	$I_F = 1\text{ mA}$			$I_F = 1\text{ mA}$			
OSW54K3131A-1MA	White	W		-	2.8	3.4	10	1120	1560	-	5500-8500K(X:0.27,Y:0.28)			30
OSM54K3131A-1MA	Warm White	M		-	2.8	3.4	10	750	1120	-	2700-3200K(X:0.45,Y:0.41)			30
OSB5DA3131A-1MA	Blue	B		-	2.8	3.4	10	500	750	-	465	470	475	30
OSG58A3131A-1MA	Pure Green	PG		-	2.8	3.4	10	1120	1560	-	520	525	530	30
OSY5PA3131A-1MA	Yellow	Y		-	1.8	2.2	10	500	750	-	585	590	595	30
OSO5PA3131A-1MA	Orange	O		-	1.8	2.2	10	500	750	-	600	605	610	30
OSR5PA3131A-1MA	Red	R		-	1.8	2.2	10	500	750	-	620	625	630	30

*1 Tolerance of measurements of chromaticity coordinate is $\pm 10\%$ *2 Tolerance of measurements of dominant wavelength is $\pm 1\text{ nm}$

*3 Tolerance of measurements of luminous intensity is $\pm 15\%$ *4 Tolerance of measurements of forward voltage is $\pm 0.1\text{ V}$

LED & Application Technologies

