

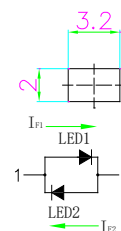
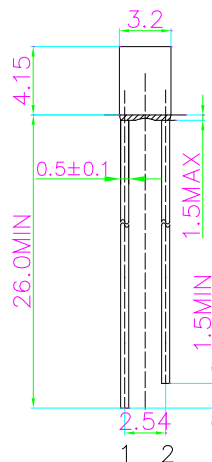
■Features

- High Luminous Intensity
- 2*3*4mm Rectangular Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- Water Clear Type
- Bi-polar Type

■Applications

- Electronic Signs and Signals
- Small Area Illuminations
- Back Lighting
- Other Lighting

■Outline Dimension



1. Anode
2. Cathode
Unit: mm
Tolerance: $\pm 0.20\text{mm}$
unless otherwise noted

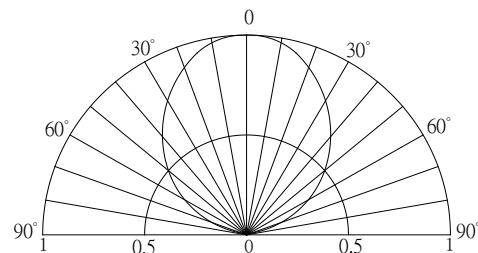
■Absolute Maximum Rating

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

Item	Symbol	Value		Unit
		W/B/PG	R/Y/O	
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	78	mW
Operating Temperature	T_{opr}	$-30 \sim +85$		$^\circ\text{C}$
Storage Temperature	T_{stg}	$-100 \sim +85$		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	$260^\circ\text{C}/5\text{sec}$		-

#Pulse width Max 0.1ms, 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)*/CCT(K)*			2 θ 1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				$I_F=20\text{mA}$			$V_R=5\text{V}$	$I_F=20\text{mA}$			$I_F=20\text{mA}$			
OSWWD27BA1B	Cool White	W		-	2.9	3.4	10	750	1120	-	CCT:8000-18000K			100
OSMMD27BA1B	Warm White	M		-	2.9	3.4	10	750	1120	-	CCT:2700-3300K			100
OSBBS27BA1B	Blue	B		-	2.9	3.4	10	330	500	-	465	470	475	100
OSPPD27BA1B	Pure Green	PG		-	2.9	3.4	10	750	1120	-	520	525	530	100
OSYYP27BA1B	Yellow	Y		-	2.1	2.6	10	500	750	-	585	590	595	100
OSOOP27BA1B	Orange	O		-	2.1	2.6	10	500	750	-	600	605	610	100
OSRRP27BA1B	Red	R		-	2.1	2.6	10	500	750	-	620	625	630	100

*1 Tolerance of measurements of color temperature $\pm 10\%$

*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

