

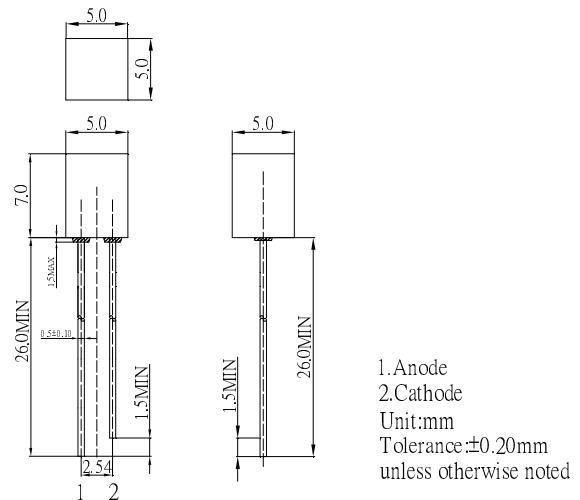
■Features

- High Luminous Intensity
- 5x5x7mm Standard Directivity
- Long Lifetime Operation
- Superior UV Resistance
- Water Clear Type

■Applications

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

■Outline Dimension



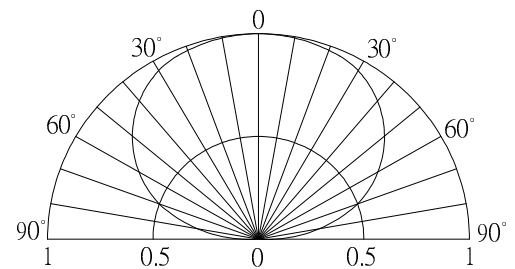
■Absolute Maximum Rating

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

Item	Symbo l	Value		Unit
		W/M/B/PG	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	108	78	mW
Operating Temperature	T_{opr}	-40 ~ +85		$^\circ\text{C}$
Storage Temperature	T_{stg}	-40 ~ +85		$^\circ\text{C}$
Lead Soldering Temperature	T_{sol}	260 $^\circ\text{C}$ /5sec		-

#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)*			λD (nm)*			2 θ 1/2(deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			$I_F=20\text{mA}$			$V_R=5\text{V}$	$I_F=20\text{mA}$						
OSW5DK7NE1B	White	W	2.8	3.1	3.6	10	1560	1800	-	8000-18000K(X:0.27,Y:0.28)			140
OSM5DK7NE1B	Warm White	M	2.8	3.1	3.6	10	750	1120	-	2700-3200K(X:0.45,Y:0.41)			140
OSB5SA7NE1B	Blue	B	2.8	3.1	3.6	10	330	500	-	455	460	465	140
OSG5DA7NE1B	Pure Green	PG	2.8	3.1	3.6	10	1560	2000	-	520	525	530	140
OSY5PA7NE1B	Yellow	Y	1.8	2.1	2.6	10	750	1000	-	585	590	595	140
OSO5PA7NE1B	Orange	O	1.8	2.1	2.6	10	750	1000	-	600	605	610	140
OSR5PA7NE1B	Red	R	1.8	2.1	2.6	10	750	1000	-	620	625	630	140

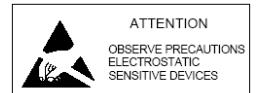
*1 Tolerance of measurements of dominant wavelength is ± 1 nm

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

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

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

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