

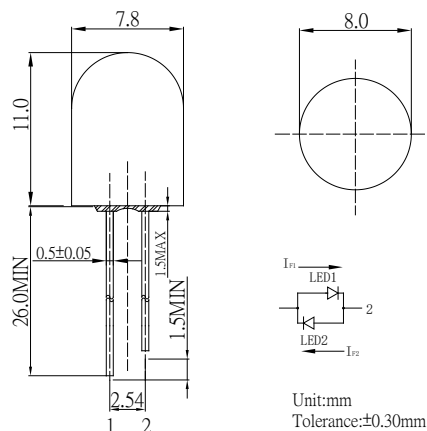
■Features

- High Luminous LEDs
- 8mm Round 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



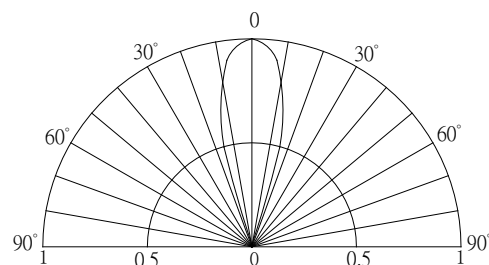
■Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value		Unit
		W/M/BL/PG	O/Y/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	78	mW
Operating Temperature	T _{opr}	-30 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C
Lead Soldering Temperature	T _{sol}	260°C/5sec		-

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

■Directivity



■Electrical -Optical Characteristics

(Ta=25°C)

Part Number	Color			V _F (V)*			I _R (μA)	I _v (mcd)*			Wd(nm)/CCT*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I _F =20mA			V _R =5V	I _F =20mA						
OSWWD28B31B	Pure White	W		-	2.9	3.4	10	8400	10000	-	5500-8500K			30
OSMMD28B31B	Warm White	M		-	2.9	3.4	10	7000	8400	-	2700-3200K			30
OSBBS28B31B	Blue	BL		-	2.9	3.4	10	4200	5800	-	465	470	475	30
OSPPD28B31B	Pure Green	PG		-	2.9	3.4	10	8400	10000	-	520	525	530	30
OSOOP28B31B	Orange	O		-	2.1	2.6	10	5800	7000	-	600	605	610	30
OSYYP28B31B	Yellow	Y		-	2.1	2.6	10	5800	7000	-	585	590	595	30
OSRRP28B31B	Red	R		-	2.1	2.6	10	5800	7000	-	620	625	630	30

*1 Tolerance of measurements of chromaticity coordinate/CCT is ±10%

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

*3 Tolerance of measurements of luminous intensity is ±15%

*4 Tolerance of measurements of forward voltage is ±0.1V