



OptoSupply

Light It Up

3mm Bullet Ultra Bright White LED

OSW57L3211A-78

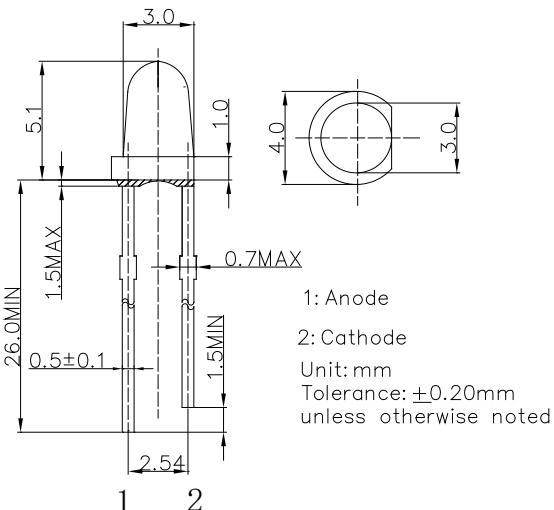
■ Features

- Ultra Bright LED
- 3mm Bullet Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- Water Clear Type

■ Applications

- Backlighting (illuminated advertising etc.)
- Substitution of Micro Incandescent Lamps
- Reading Lamps / Emergency Lighting
- Marker lights (e.g. steps, exit ways, etc.)

■ Outline Dimension



■ Absolute Maximum Rating

(Ta=25°C)

Item	Symbol	Value	Unit
DC Forward Current	I _F	50	mA
Pulse Forward Current#	I _{FP}	120	mA
Reverse Voltage	V _R	5	V
Power Dissipation	P _D	150	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

■ Electrical -Optical Characteristics

(Ta=25°C)

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
DC Forward Voltage* ₁	V _F	I _F =20mA	-	2.7	3.0	V
DC Reverse Current	I _R	V _R =5V	-	-	10	μA
Luminous Flux* ₂	Φ _v	I _F =20mA	9	11	-	lm
Luminous Intensity* ₃	I _v	I _F =20mA	60000	70000	-	mcd
Color Temperature* ₄	CCT	I _F =20mA	8500	10000	18000	K
Chromaticity Coordinates* ₅	x	I _F =20mA	-	0.27	-	
	y	I _F =20mA	-	0.28	-	
50% Power Angle	2θ _{1/2}	I _F =20mA	-	15	-	deg

*₁ Tolerance of measurements of forward voltage is $\pm 0.1\text{V}$

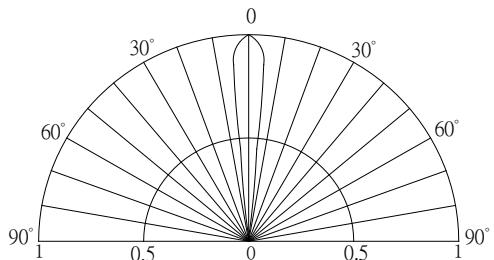
*₂ Tolerance of measurements of luminous flux is $\pm 15\%$

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

*₄ Tolerance of measurements of color temperature is $\pm 10\%$

*₅ Tolerance of measurements of chromaticity coordinates is $\pm 10\%$

■ Directivity



LED & Application Technologies

