OptoSupply
Light It Up

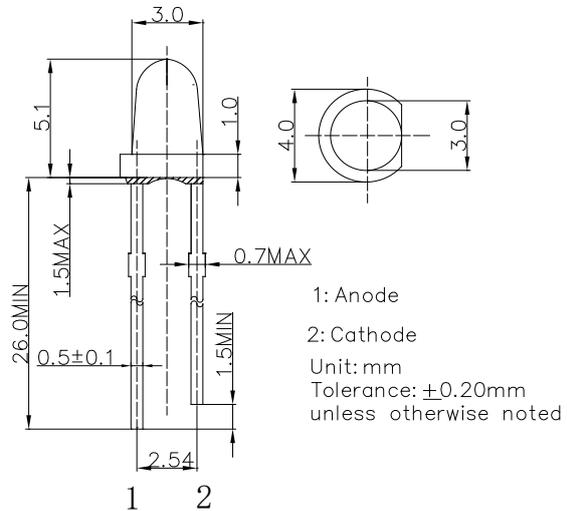**3mm Bullet Ultra Bright White LED**

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
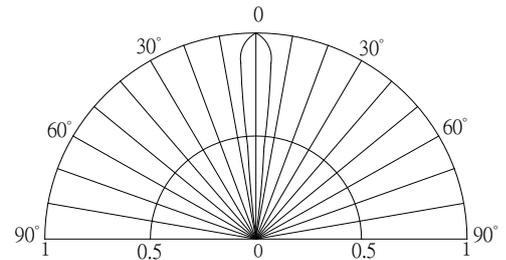- Marker lights (e.g. steps, exit ways, etc.)

■Outline Dimension

1: Anode

2: Cathode

Unit: mm
Tolerance: ±0.20mm
unless otherwise noted

■Absolute Maximum Rating　　　　(Ta=25℃)

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	Topr	-30 ~ +85	℃
Storage Temperature	Tstg	-40 ~ +100	℃
Lead Soldering Temperature	Tsol	260℃/5sec	-

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

■Directivity

■Electrical -Optical Characteristics　　　(Ta=25℃)

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	Φv	I_F=20mA	9	11	-	lm
Luminous Intensity*3	Iv	I_F=20mA	60000	70000	-	mcd
Color Temperature*4	CCT	I_F=20mA	8500	10000	18000	K
Chromaticity	x	I_F=20mA	-	0.27	-	
Coordinates*5	y	I_F=20mA	-	0.28	-	
50% Power Angle	$2\theta_{1/2}$	I_F=20mA	-	15	-	deg

*1 Tolerance of measurements of forward voltage is ±0.1V
*2 Tolerance of measurements of luminous flux is ±15%
*3 Tolerance of measurements of luminous intensity is ±15%
*4 Tolerance of measurements of color temperature is ±10%
*5Tolerance of measurements of chromaticity coordinates is ±10%

LED & Application Technologies

CNAS ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

REACH The new EU chemicals legislation

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