OptoSupply
Light It Up

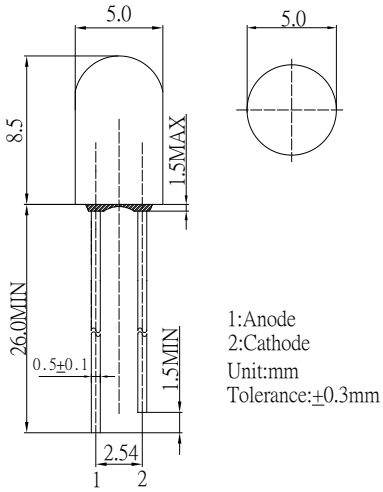
5mm High Lumen LED

OSXXXP5E11B

▪Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- UV Resistant Epoxy
- Water Clear Type
- Perfect Beam Pattern

▪Outline Dimension



▪Applications

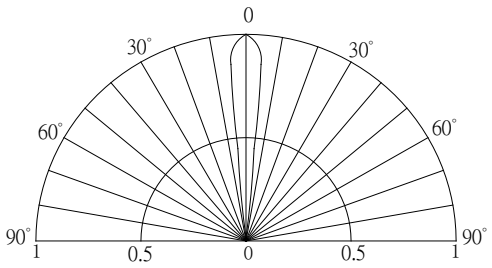
- Advertising Board
- Horticulture Application
- Traffic Light / Signal Light
- Beauty product

▪Absolute Maximum Rating (Ta=25℃)

Item	Symbol	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	102	78	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℃)

Part Number	Color			V_F (V)			I_R(μA)	Φv (LM)			Iv (cd)			Wd(nm)/CCT(K)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ	Max.	Min.	Typ	Max.	Min.	Typ.	Max.	Typ.
				I_F=30mA			V_R=5V	I_F=30mA									
OSW54P5E11B	Cool White	W		-	2.9	3.4	10	8.5	10	-	30	36	-	8500-18000K(X:0.27,Y:0.28)			15
OSW44P5E11B	Pure White	W		-	2.9	3.4	10	8.5	10	-	30	36	-	5500-8500K(X:0.31,Y:0.33)			15
OSM54P5E11B	Warm White	M		-	2.9	3.4	10	8.5	10	-	30	36	-	2700-3200K(X:0.44,Y:0.41)			15
OSB56P5E11B	Blue	B		-	2.9	3.4	10	2.5	3.0	-	14.4	18	-	465	470	475	15
OSG5GP5E11B	Pure Green	PG		-	2.9	3.4	10	8.5	10	-	43	50	-	520	525	530	15
OS5YKP5E11B	Yellow	Y		-	2.1	2.6	10	3.5	4.5	-	22	25	-	585	590	595	15
OS5OKP5E11B	Orange	O		-	2.1	2.6	10	3.5	4.5	-	22	25	-	600	605	610	15
OS5RKP5E11B	Red	R		-	2.1	2.6	10	3.5	4.5	-	22	25	-	620	625	630	15

*1 Tolerance of measurements of chromaticity coordinate is ±10%
*2 Tolerance of measurements of dominant wavelength is ±1nm
*3 Tolerance of measurements of luminous flux is ±15%
*4 Tolerance of measurements of forward voltage is ±0.1V