OptoSupply
Light It Up

3mm Cylinder LED

OSXXXX3HE1B

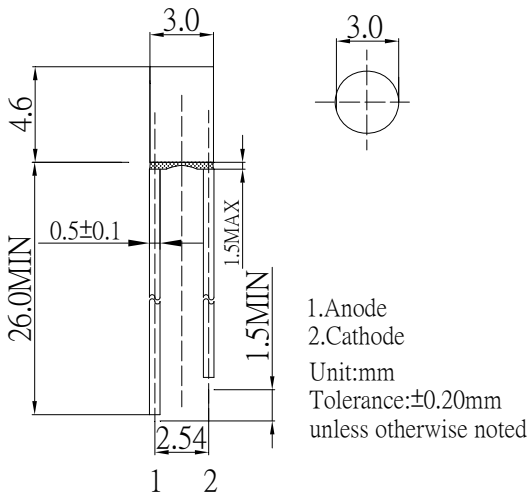
■Features

- High Luminous Intensity
- 3mm Cylinder Standard Directivity
- Long Lifetime Operation
- UV Resistant Epoxy
- Water Clear Type

■Applications

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

■Outline Dimension

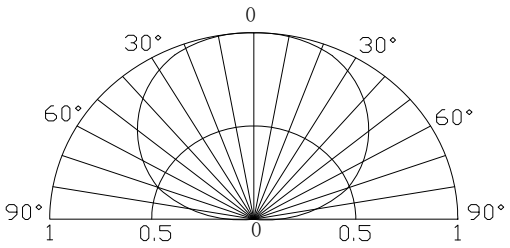


■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		W/M/BL/PG	YG/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)	Iv(mcd)*			Wd(nm)*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=20mA			V_R=5V	I_F=20mA						
OSW4DK3HE1B	Pure White	W		-	2.9	3.4	10	2180	3000	-	*CCT: 5500-8500K			140
OSM5DK3HE1B	Warm White	M		-	2.9	3.4	10	1560	2180	-	*CCT: 2700-3300K			140
OSB5SA3HE1B	Blue	BL		-	2.9	3.4	10	500	750	-	465	470	475	140
OSG5DA3HE1B	Pure Green	PG		-	2.9	3.4	10	1560	2180	-	520	525	530	140
OSG8HA3HE1B	Yellow Green	YG		-	2.1	2.6	10	100	150	-	565	570	575	140
OSY5PA3HE1B	Yellow	Y		-	2.1	2.6	10	750	1120	-	585	590	595	140
OSY5JA3HE1B	Yellow	Y		-	2.1	2.6	10	150	220	-	585	590	595	140
OSO5PA3HE1B	Orange	O		-	2.1	2.6	10	750	1120	-	600	605	610	140
OSO5JA3HE1B	Orange	O		-	2.1	2.6	10	150	220	-	600	605	610	140
OSR5PA3HE1B	Red	R		-	2.1	2.6	10	750	1120	-	620	625	630	140
OSR5JA3HE1B	Red	R		-	2.1	2.6	10	150	220	-	620	625	630	140

*1 Tolerance of measurements of 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

LED & Application Technologies

ISO 9001: 2008

RoHS Compliant EU2002/95/EC

REACH The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES