OptoSupply
Light It Up

3.2x1.6 x0.8mm SMD

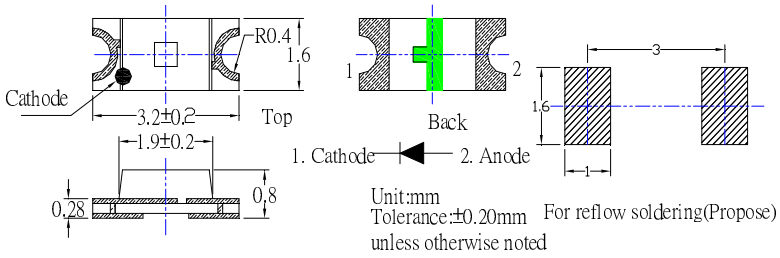
OSXX1206C1E

Ver.A.6

■Features

- Single chip
- Super high brightness of surface mount LED
- Compact package outline
  (L x W x T) of 3.2mm x 1.6mm x 0.8mm
- Compatible to IR reflow soldering.

■Outline Dimension



■Applications

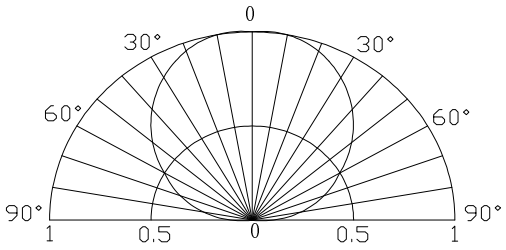
- Backlighting (switches, keys, etc.)
- Marker lights (e.g. steps, exit ways, etc.)

■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		W5/M5/K5/B5/G5	G8/Y5/O5/R5	
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	108	78	mW
Operating Temperature	Topr	-40 ~ +85		℃
Storage Temperature	Tstg	-40~ +85		℃
Lead Soldering Temperature	Tsol	260℃/10sec		-

*Pulse width Max 0.1ms, Duty ratio max 1/10

■Directivity



■Electrical -Optical Characteristics (Ta=25℃)

Part Number	Color			V_F (V)			I_R(μA)	Iv(mcd)			λD(nm)			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=20mA			V_R=5V	I_F=20mA						
OSW51206C1E	White	W5		3.0	-	3.6	10	400	450	-	X=0.29 Y=0.29			120
OSM51206C1E	Warm White	M5		3.0	-	3.6	10	400	450	-	X:0.44, Y:0.41			120
OSK51206C1E	Pink	K5		3.0	-	3.6	10	60	90	-	X:0.38, Y:0.18			120
OSB51206C1E	Blue	B5		3.0	-	3.6	10	80	100	-	460	465	475	120
OSG51206C1E	True Green	G5		2.9	-	3.6	10	300	350	-	520	525	530	120
OSG81206C1E	Yellow Green	G8		1.8	-	2.6	10	20	45	-	565	570	575	120
OSY51206C1E	Yellow	Y5		1.8	-	2.6	10	60	90	-	585	590	595	120
OSO51206C1E	Orange	O5		1.8	-	2.6	10	100	120	-	600	605	610	120
OSR51206C1E	Red	R5		1.8	-	2.6	10	100	120	-	620	625	630	120

***1 Tolerance of measurements of chromaticity coordinate 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**