

**■Features**

- Single chip
- Super high brightness of reverse mount LED
- Compact package outline  
(L x W x T) of 3.2mm x 1.6mm x 0.8mm
- Compatible to IR reflow soldering.
- Water Clear Type Except White&Warm White

**■Applications**

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

**■Absolute Maximum Rating**

(Ta=25°C)

Item	Symbol	Value		Unit
		W5/M5/B5/G5	G8/Y5//O5/R5	
DC Forward Current	I <sub>F</sub>	30	30	mA
Pulse Forward Current*	I <sub>FP</sub>	100	100	mA
Reverse Voltage	V <sub>R</sub>	5	5	V
Power Dissipation	P <sub>D</sub>	108	78	mW
Operating Temperature	Topr	-40 ~ +85		°C
Storage Temperature	Tstg	-40~ +85		°C
Lead Soldering Temperature	Tsol	260°C/10sec		-

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

**■Electrical -Optical Characteristics**

(Ta=25°C)

Part Number	Color		V <sub>F</sub> (V)			I <sub>R</sub> (μA)	I <sub>v</sub> (mcd)			λD(nm)			2θ1/2(deg)
			Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
			I <sub>F</sub> =20mA			V <sub>R</sub> =5V		I <sub>F</sub> =20mA					
OSW51206E1N-0.8T	White	W5	2.8	3.1	3.6	10	500	700	-	8000-18000K			140
OSM51206E1N-0.8T	Warm White	M5	2.8	3.1	3.6	10	500	700	-	2700-3300K			140
OSB51206E1N-0.8T	Blue	B5	2.8	3.1	3.6	10	100	150	-	460	465	475	140
OSG51206E1N-0.8T	True Green	G5	2.8	3.1	3.6	10	500	700	-	515	525	530	140
OSG81206E1N-0.8T	Yellow Green	G8	1.8	2.1	2.6	10	20	35	-	565	570	575	140
OSY51206E1N-0.8T	Yellow	Y5	1.8	2.1	2.6	10	80	100	-	585	590	595	140
OSO51206E1N-0.8T	Orange	O5	1.8	2.1	2.6	10	80	100	-	600	605	610	140
OSR51206E1N-0.8T	Red	R5	1.8	2.1	2.6	10	80	100	-	615	625	630	140

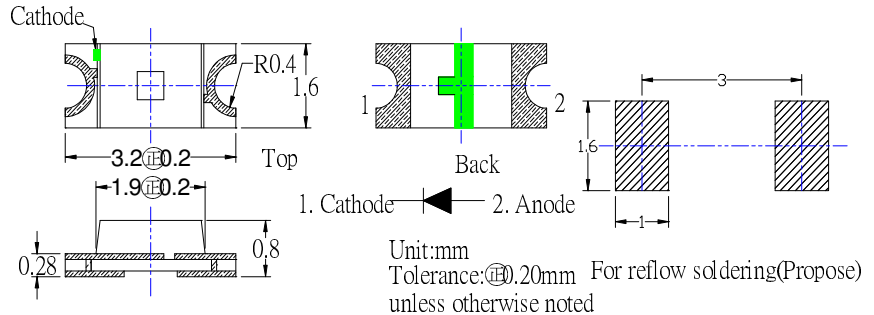
\*1 Tolerance of measurements of chromaticity coordinate is ±10%

\*2 Tolerance of measurements of dominant wavelength is ±1nm

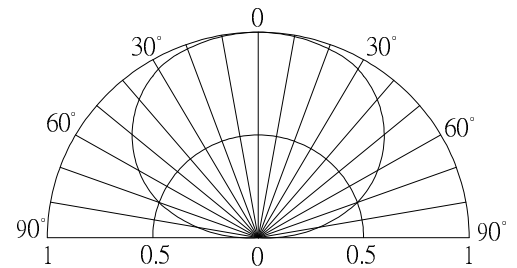
\*3 Tolerance of measurements of luminous intensity is ±15%

\*4 Tolerance of measurements of forward voltage is±0.1V

**■Outline Dimension**



**■Directivity**



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