OptoSupply
Light It Up

5mm Round LED
OSXXXX5B11C
OSXXXX5B41C
C503/334 Series

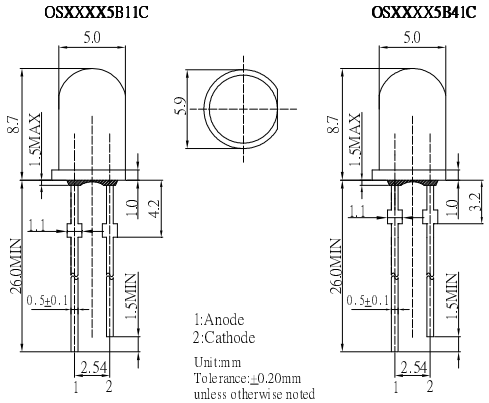
■Features

- High Luminous LEDs
- 5mm Round Standard Directivity
- Superior Weather-resistance
- UV Resistant Epoxy
- Water Clear Type
- **Everlight:334Series/Cree:C503 Series**

■Applications

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

■Outline Dimension

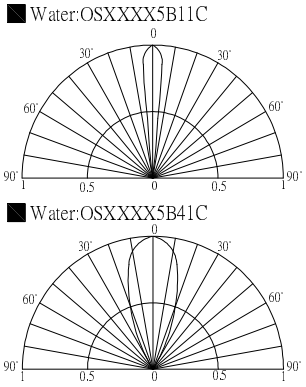


■Absolute Maximum Rating (Ta=25℃)

Item	Symbol	Value		Unit
		W/M/BL/PG	YL/OR/HR	
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	-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)			CCT(K)*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=20mA			V_R=5V	I_F=20mA						
OSW6DK5B11C	Cool White	W		2.8	3.1	3.6	10	14400	18000	-	13000-35000K(X:0.25,Y:0.26)			15
OSW64K5B11C	Cool White	W		2.7	3.0	3.6	10	25000	30000	-	13000-35000K(X:0.25,Y:0.26)			15
OSW5DK5B11C	Cool White	W		2.8	3.1	3.6	10	18000	22000	-	8500-18000K(X:0.27,Y:0.28)			15
OSW54K5B11C	Cool White	W		2.7	3.0	3.6	10	30000	36000	-	8500-18000K(X:0.27,Y:0.28)			15
OSW4DK5B11C	White	W		2.8	3.1	3.6	10	18000	22000	-	5500-8500K(X:0.31,Y:0.33)			15
OSW44K5B11C	White	W		2.7	3.0	3.6	10	30000	36000	-	5500-8500K(X:0.31,Y:0.33)			15
OSM5DK5B11C	Warm White	M		2.8	3.1	3.6	10	18000	22000	-	2700-3200K(X:0.44,Y:0.41)			15
OSM54K5B11C	Warm White	M		2.7	3.0	3.6	10	30000	36000	-	2700-3300K(X:0.44,Y:0.41)			15
OSM6DK5B11C	Warm White	M		2.8	3.1	3.6	10	18000	22000	-	2900-3800K(X:0.42,Y:0.40)			15
OSM64K5B11C	Warm White	M		2.7	3.0	3.6	10	30000	36000	-	2900-3800K(X:0.42,Y:0.40)			15

*1 Tolerance of measurements of chromaticity coordinate is ±10%
*2 Tolerance of measurements of luminous intensity is ±15%
*3 Tolerance of measurements of forward voltage is±0.1V

LED & Application Technologies

ISO 9001: 2008

RoHS Compliant EU 2002/95/EC

The new EU chemicals legislation

ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

■Electrical -Optical Characteristics (Ta=25℃)

Part Number	Color			V_F (V)			I_R(μA)	Iv(mcd)			CCT(K)*			2θ1/2(deg)
				Min.	Typ.	Max.	Max.	Min.	Typ.	Max.	Min.	Typ.	Max.	Typ.
				I_F=20mA			V_R=5V	I_F=20mA						
OSW6DK5B41C	Cool White	W		2.8	3.1	3.6	10	5800	7000	-	13000-35000K(X:0.25,Y:0.26)			40
OSW64K5B41C	Cool White	W		2.7	3.0	3.6	10	8400	10000	-	13000-35000K(X:0.25,Y:0.26)			40
OSW5DK5B41C	Cool White	W		2.8	3.1	3.6	10	7000	8400	-	8500-18000K(X:0.27,Y:0.28)			40
OSW54K5B41C	Cool White	W		2.7	3.0	3.6	10	10000	12000	-	8500-18000K(X:0.27,Y:0.28)			40
OSW4DK5B41C	White	W		2.8	3.1	3.6	10	7000	8400	-	5500-8500K(X:0.31,Y:0.33)			40
OSW44K5B41C	White	W		2.7	3.0	3.6	10	10000	12000	-	5500-8500K(X:0.31,Y:0.33)			40
OSM5DK5B41C	Warm White	M		2.8	3.1	3.6	10	7000	8400	-	2700-3200K(X:0.44,Y:0.41)			40
OSM54K5B41C	Warm White	M		2.7	3.0	3.6	10	10000	12000	-	2700-3300K(X:0.44,Y:0.41)			40
OSM6DK5B41C	Warm White	M		2.8	3.1	3.6	10	7000	8400	-	2900-3800K(X:0.42,Y:0.40)			40
OSM64K5B41C	Warm White	M		2.7	3.0	3.6	10	10000	12000	-	2900-3800K(X:0.42,Y:0.40)			40

*1 Tolerance of measurements of chromaticity coordinate is ±10%
*2 Tolerance of measurements of luminous intensity is ±15%
*3 Tolerance of measurements of forward voltage is±0.1V

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C503/334 Series

■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						
OSB5SA5B11C	Blue	BL		2.8	3.1	3.6	10	10000	12000	-	465	470	475	15
OSB56A5B11C	Blue	BL		2.8	3.0	3.6	10	12000	14400	-	465	470	475	15
OSG5DA5B11C	Pure Green	PG		2.8	3.1	3.6	10	30000	36000	-	520	525	530	15
OSG5GA5B11C	Pure Green	PG		2.7	2.9	3.6	10	36000	43000	-	520	525	530	15
OSG8NU5B11C	Yellow Green	YG		1.8	2.1	2.6	10	750	1120	-	565	570	575	15
OSY5LU5B11C	Yellow	Y		1.8	2.1	2.6	10	1560	2180	-	585	590	595	15
OSY5JA5B11C	Yellow	Y		1.8	2.1	2.6	10	2180	3000	-	585	590	595	15
OSY5RU5B11C	Yellow	Y		1.8	2.1	2.6	10	3000	4200	-	585	590	595	15
OSY5PA5B11C	Yellow	Y		1.8	2.1	2.6	10	8400	10000	-	585	590	595	15
OS5YKA5B11C	Yellow	Y		1.8	2.1	2.6	10	18000	22000	-	585	590	595	15
OSO5JA5B11C	Orange	O		1.8	2.1	2.6	10	2180	3000	-	600	605	610	15
OSR5JA5B11C	Red	R		1.8	2.1	2.6	10	2180	3000	-	620	625	630	15
OSR5RU5B11C	Red	R		1.8	2.1	2.6	10	3000	4200	-	620	625	630	15
OSR5PA5B11C	Red	R		1.8	2.1	2.6	10	8400	10000	-	620	625	630	15
OS5RKA5B11C	Red	R		1.8	2.1	2.6	10	18000	22000	-	620	625	630	15
OSR6LU5B11C	Red	R		1.8	2.1	2.6	10	750	1120	-	630	640	650	15
OSB5SA5B41C	Blue	BL		2.8	3.1	3.6	10	3000	4200	-	465	470	475	40
OSB56A5B41C	Blue	BL		2.8	3.0	3.6	10	4200	5800	-	465	470	475	40
OSG5DA5B41C	Pure Green	PG		2.8	3.1	3.6	10	7000	8400	-	520	525	530	40
OSG5GA5B41C	Pure Green	PG		2.7	2.9	3.6	10	14400	18000	-	520	525	530	40
OSG8NU5B41C	Yellow Green	YG		1.8	2.1	2.6	10	330	500	-	565	570	575	40
OSY5LU5B41C	Yellow	Y		1.8	2.1	2.6	10	750	1120	-	585	590	595	40
OSY5JA5B41C	Yellow	Y		1.8	2.1	2.6	10	1120	1560	-	585	590	595	40
OSY5RU5B41C	Yellow	Y		1.8	2.1	2.6	10	1560	2180	-	585	590	595	40
OSY5PA5B41C	Yellow	Y		1.8	2.1	2.6	10	4200	5800	-	585	590	595	40
OS5YKA5B41C	Yellow	Y		1.8	2.1	2.6	10	5800	7000	-	585	590	595	40
OSO5JA5B41C	Orange	O		1.8	2.1	2.6	10	1560	2180	-	600	605	610	40
OSR5JA5B41C	Red	R		1.8	2.1	2.6	10	1120	1560	-	620	625	630	40
OSR5RU5B41C	Red	R		1.8	2.1	2.6	10	1560	2180	-	620	625	630	40
OSR5PA5B41C	Red	R		1.8	2.1	2.6	10	4200	5800	-	620	625	630	40
OS5RKA5B41C	Red	R		1.8	2.1	2.6	10	5800	7000	-	620	625	630	40
OSR6LU5B41C	Red	R		1.8	2.1	2.6	10	330	500	-	630	640	650	40

*1 Tolerance of measurements of dominant wavelength is ±1nm
*2 Tolerance of measurements of luminous intensity is ±15%
*3 Tolerance of measurements of forward voltage is ±0.1V