

## 3.2x1.6 x0.8mm Reverse Mount Chip LED

## OSXX1206E1N-0.8T

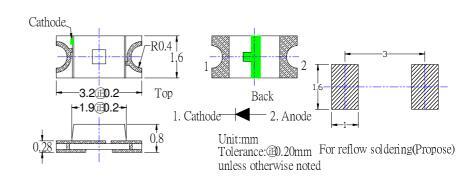
### **■Features**

- · 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.)

## **■Outline Dimension**

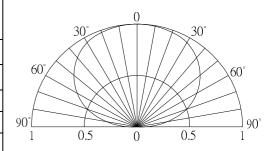


### ■Absolute Maximum Rating

### (Ta=25°C)

#### Value Item Symbol Unit W5/M5/B5/G5 G8/Y5//O5/R5 DC Forward Current 30 30 $I_F$ mA Pulse Forward Current\* 100 100 $I_{FP}$ mA 5 5 V Reverse Voltage $V_{R}$ Power Dissipation $P_{D}$ 108 78 mW $^{\circ}$ C Operating Temperature -40 ~ +85 Topr $^{\circ}$ C -40~ +85 Storage Temperature Tstg 260°C/10sec Lead Soldering Temperature Tsol

## **■**Directivity



### **■ Electrical -Optical Characteristics**

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			$V_{F}(V)$		$I_R(\mu A)$	Iv(mcd)		λD(nm)		2θ1/2(deg)				
Part Number Color		Color		Min.	Тур.	Max.	Max.	Min.	Тур.	Max.	Min.	Тур.	Max.	Тур.
				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	В5		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

<sup>\*1</sup> Tolerance of measurements of chromaticity coordinate is +10%

# LED & Application Technologies









http://www.optosupply.com VER A..0

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

<sup>\*2</sup> Tolerance of measurements of dominant wavelength is  $\pm 1$ nm

<sup>\*3</sup> Tolerance of measurements of luminous intensity is ±15%

<sup>\*4</sup> Tolerance of measurements of forward voltage is±0.1V



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### **■ Cautions:**

- 1. After open the package, the LED's floor life is 1 year under 30° C or less and 60%RH or less (MSL:2).
- 2. Heat generation must be taken into design consideration when using the LED.
- 3. Power must be applied resistors for protection, over current would be caused the optic damage to the devices and wavelength shift.
- 4. Manual tip solder may cause the damage to Chip devices, so advised that heat of iron should be lower than 15W with temperature control under 5 seconds at 230-260 deg. C. (The device would be got damage in re working process, recommended under 5 seconds at 230-260 deg. C)
- 5. All equipment and machinery must be properly grounded. It is recommended to use a wristband or anti-electrostatic glove when handing the LED.
- 6. Use IPA as a solvent for cleaning the LED. The other solvent may dissolve the LED package and the epoxy, Ultrasonic cleaning should not be done.
- 7. Damaged LED will show unusual characteristics such as leak current remarkably increase, turn-on voltage becomes lower and the LED get unlight at low current.
- 8. OPTOSUPPLY will not do 4M change without advance consultation.

CNAS (IAB)
ISO 9001: 2008





