



Optowell Co., Ltd.

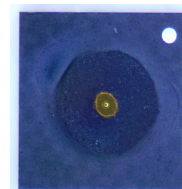
XG52-S2121-SD-BZ-23 Pre 3.0

Green Dot 50 μ m LED Black 2121 SMD Package

Features

- : 520nm wavelength range
- : Φ 50 μ m Emitting area
- : Low current bias
- : Other configurations available on request

Description



Applications

- : Point Source
- : Sensors

Absolute Maximum Ratings

Parameter	Rating
Storage Temperature	-40 to 100 °C
Operating Temperature	-20 to 85 °C
Lead Solder Temperature	260 °C, 5 sec
Continuous Forward Current	7mA
Continuous Reverse Voltage	5V (@10 μ A)



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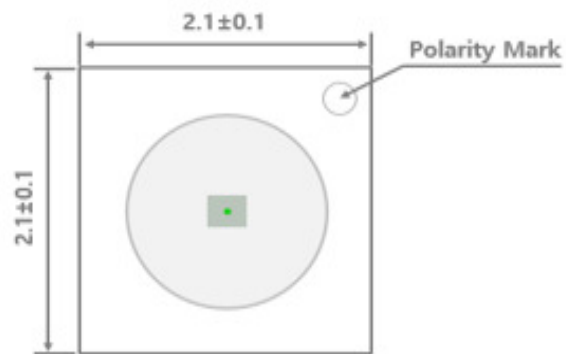
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Pre 3.0

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Dimensions

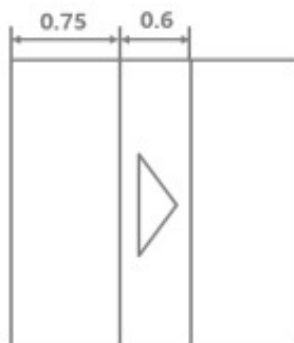
Unit :mm



TOP VIEW



SIDE VIEW



BOTTOM VIEW

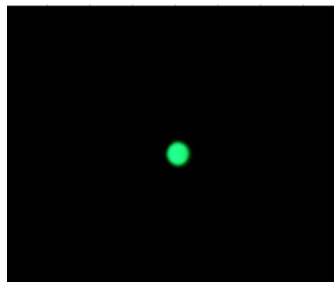


**Optowell Co., Ltd.****XG52-S2121-SD-BZ-23** Pre 3.0Green Dot 50 μ m LED Black 2121 SMD Package**Electro-Optics Characteristics ($T_a=25^\circ\text{C}$ unless otherwise stated)**

Parameters	Symbol	Specified			Unit	Test Conditions
		Min.	Typ.	Max.		
Total Radiant Flux	Φ_o		100		μW	$I_f = 5\text{mA}$
Peak Wavelength	λ_p		520	540	nm	$I_f = 2\text{mA}$
Forward Voltage	V_f		2.8		V	$I_f = 2\text{mA}$
Operating Voltage	V_{op}		2.15		V	$I_f = 50\mu\text{A}$
Operating Current **	I_{op}	10		100	μA	
Breakdown Voltage	V_b		-10		V	

* : Total Radiant flux Value is referenced to the vender's measurement system
(correlation to customer product is required).

** : The applied current can be changed according to the user environment

Emitting mode (Green Dot , $I_f = 20 \mu\text{A}$)**Notes**

* These specifications are subject to change without notice

**NOTICE**

The inherent design of this component causes it to be sensitive to electrostatic discharge(ESD). To prevent ESD-induced damage and/or degradation to equipment, take normal ESD precautions when handling this product

DANGER

The VCSEL is a class IIIb laser and should be treated as a potential eye hazard. Due to the size of the component, the applicable warning logotype, aperture label, and certification / identification label cannot be placed on the component itself.