

INDICATE LED



Absolute Maximum Ratings (T _A =25°C)[1]		Red (AlGaI nP)	Green (InGa N)	Blue (InG aN)	Unit
Reverse Voltage	V_{R}	5	5	5	V
Forward Current	$\mathbf{I}_{\mathbf{F}}$	30	20	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width[3]	ifs	200	100	100	mA
Power Dissipation [2]	\mathbf{P}_{D}	300		mW	
Operating Temperature	TA	-40 ~ +85 °C			
Storage Temperature	Tstg				
Electrostatic Discharge Thresh- old(HBM)		3000	450	250	V
Lead Solder Temperature [2mm Below Package Base]		260°C For 3-5 Seconds			

Notes:

1. Limiting values given are in accordance with the absolute Maximun ratings,Stress above one and more of the values may cause permanent damage to the device.

2.Within 300mW at all chips are lightened

3.1/10Duty Cycle,0.1ms Pulse Width

4.A Relative Humidity between 40% and 60% is recommended in ESD-protected work areas to reduce static build up during assembly proce (Reference JEDEC/JESD625-A and JEDEC/J-STD-033)

		(I _F =20mA)	/	
	V	Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$ riangle \lambda$	20
ıds		Capacitance (Typ.) $(V_F=0V, f=1MHz)$	С	25
	n nt			
у	process	\sum		

Operating Characteristics

Forward Voltage (Typ.) (I_F=20mA)

Forward Voltage (Max.) (IF=20mA)

Reverse Current (Max.) ($V_R=5V$)

Emission CIE127-2007*(Typ.)

Wavelength of Dominant Emission CIE127-2007*(Typ.)

Wavelength of Peak

(T_A=25°C)

(I_F=20mA)

XDSB9109 V1-Z Layout: Maggie L.

(AlGaI

nP)

2.1

2.5

10

631*

624*

VF

 $V_{\rm F}$

 I_{R}

 λP

λD

Unit

V

V

uA

nm

nm

nm

pF

(InGa

N)

3.3

4.0

50

465*

470*

22

100

(InGa

N)

3.3

41

50

515*

525*

35

45



INDICATE LED

Common Anode	
	-



* Red









PACKING & LABEL SPECIFICATIONS



TERMS OF USE

- 1. Data presented in this document reflect statistical figures and should be treated as technical reference only.
- 2. Contents within this document are subject to improvement and enhancement changes without notice.
- 3. The product(s) in this document are designed to be operated within the electrical and environmental specifications indicated on the datasheet. User accepts full risk and responsibility when operating the product(s) beyond their intended specifications.
- 4. The product(s) described in this document are intended for electronic applications in which a person's life is not reliant upon the LED. Please consult with a SunLED representative for special applications where the LED may have a direct impact on a person's life.
- 5. The contents within this document may not be altered without prior consent by SunLED.
- 6. Additional technical notes are available at <u>http://www.Sunl/EDusa.com/TechnicalNotes.asp</u>

Jun 01, 2018