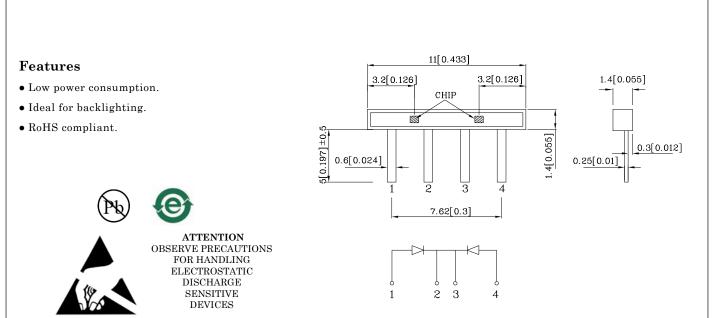


11mm x 1.4mm SIDE VIEW



Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is \pm 0.25(0.01") unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (TA=25°C)		DG (InGaN)	Unit	
Reverse Voltage	VR	5	V	
Forward Current	IF	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	iFS	150	mA	
Power Dissipation	PD	102.5	mW	
Operating Temperature	ТА	$-40 \sim +85$	°C	
Storage Temperature	Tstg	-40 ~ +85	-C	
Lead Solder Temperature [2mm Below Package Base]		260°C For 3 Seconds		
Lead Solder Temperature [5mm Below Package Base]		260°C For 5 Seconds		

Operating Characteristics (TA=25°C)		DG (InGaN)	Unit
Forward Voltage (Typ.) (IF=20mA)	VF	3.3	v
Forward Voltage (Max.) (IF=20mA)	VF	4.1	V
Reverse Current (Max.) (VR=5V)	IR	50	uA
Wavelength of Peak Emission (Typ.) (IF=20mA)	λP	515	nm
Wavelength of Dominant Emission (Typ.) (IF=20mA)	λD	525	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=20mA)	Δλ	30	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	С	45	pF

Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (IF=20mA) mcd		Wavelength nm λ P	Viewing Angle 2 0 1/2
				min.	typ.		
XZDG66S	Green	InGaN	Water Clear	200	427	515	120°
Published Date :	: OCT 20,2010	Drawing	No : XDSB5307	V1	Checke	ed : B.L.LIU	P.1/5

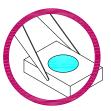


11mm x 1.4mm SIDE VIEW

Handling Precautions

Compare to epoxy encapsulant that is hard and brittle, silicone is softer and flexible. Although its characteristic significantly reduces thermal stress, it is more susceptible to damage by external mechanical force. As a result, special handling precautions need to be observed during assembly using silicone encapsulated LED products. Failure to comply might lead to damage and premature failure of the LED.

1. Handle the component along the side surfaces by using forceps or appropriate tools.



2. Do not directly touch or handle the silicone lens surface. It may damage the internal circuitry.

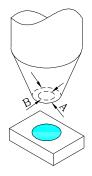


3. Do not stack together assembled PCBs containing exposed LEDs. Impact may scratch the silicone lens or damage the internal circuitry.



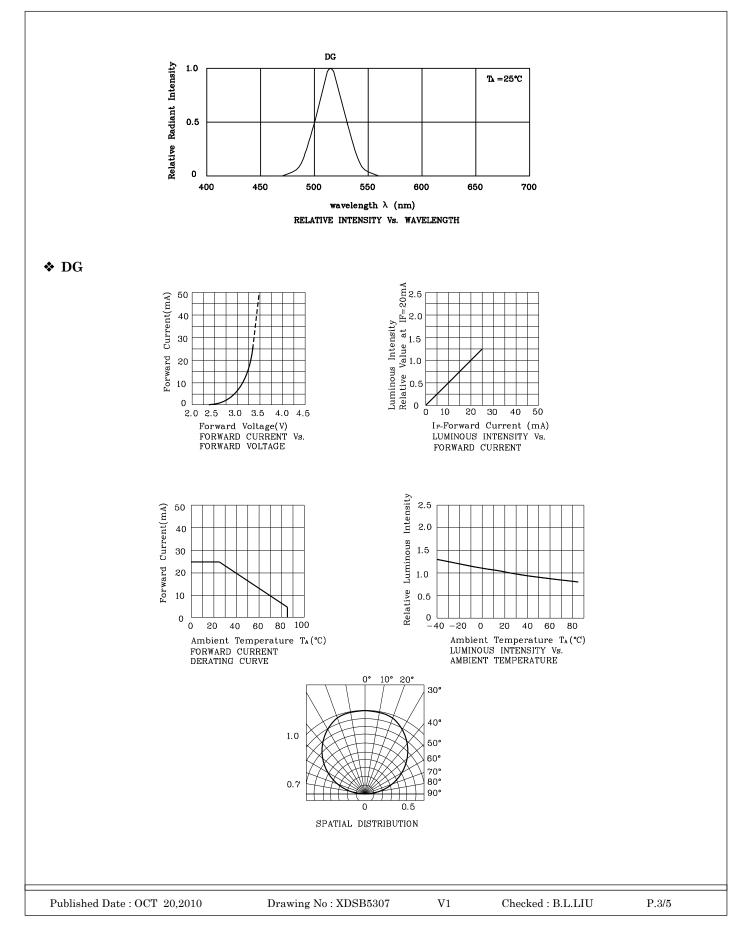
4. The outer diameter of the SMD pickup nozzle should not exceed the size of the LED to prevent air leaks. The inner diameter of the nozzle should be as large as possible.

5. A pliable material is suggested for the nozzle tip to avoid scratching or damaging the LED surface during pickup.6. The dimensions of the component must be accurately programmed in the pick-and-place machine to insure precise pickup and avoid damage during production.

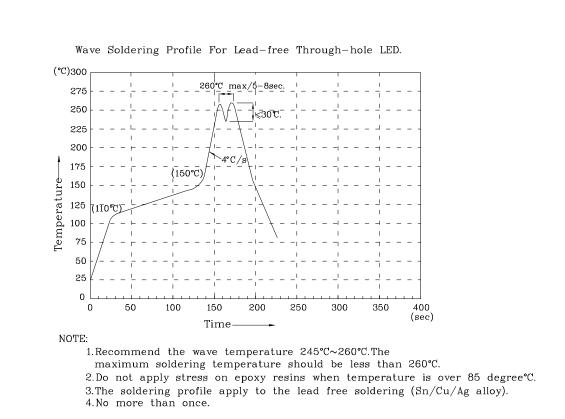




11mm x 1.4mm SIDE VIEW







Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux or wavelength),

the typical accuracy of the sorting process is as follows: $% \left(f_{1}, f_{2}, f_{3}, f_{3},$

- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / luminous flux: +/-15%
- 3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.



Part Number: XZDG66S

11mm x 1.4mm SIDE VIEW

