www.SunLED.com

Features

 \bullet Ideal for indication light on hand held products

• Long life and robust package

• Variety of lens types and color choices available

ullet Package : 2000pcs / reel

• Moisture sensitivity level : level 3

• RoHS compliant

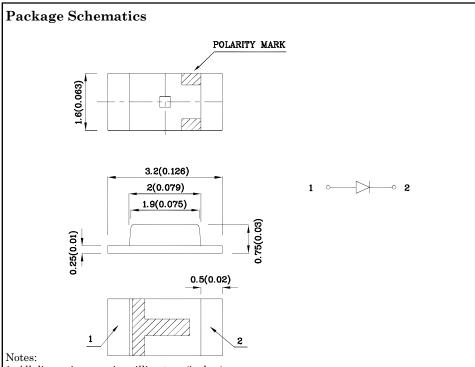






ATTENTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE

DEVICES



- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is $\pm 0.2 (0.008")$ unless otherwise noted.
- 3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T _A =25°C)	DG (InGaN)	Unit		
Reverse Voltage	$V_{\rm R}$	5	V	
Forward Current	I_{F}	25	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	P_{D}	102.5	mW	
Operating Temperature	erating Temperature T _A		°C	
Storage Temperature	Tstg	-40 ~ +85	C	
Electrostatic Discharge Threshold (HBM)	450	V		

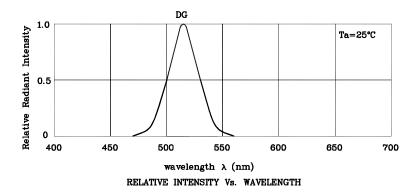
Operating Characteristics (T _A =25°C)		DG (InGaN)	Unit
Forward Voltage (Typ.) (I _F =20mA)	V_{F}	3.3	V
Forward Voltage (Max.) (I _F =20mA)	V_{F}	4.1	V
Reverse Current (Max.) $(V_R=5V)$	I_R	50	uA
Wavelength of Peak Emission (Typ.) $(I_F=20 \text{mA})$	λΡ	515	nm
Wavelength of Dominant Emission (Typ.) $(I_F=20 \text{mA})$	λD	525	nm
Spectral Line Full Width At Half-Maximum (Typ.) (I _F =20mA)	$\triangle \lambda$	30	nm
Capacitance (Typ.) (V _F =0V, f=1MHz)	C	45	pF

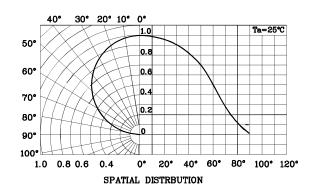
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I _F =20mA) mcd		Wavelength $nm \ \lambda P$	Viewing Angle 20 1/2
				min.	typ.		
ZDG55W-1	Green	InGaN	Water Clear	280	447	515	120°

Apr 11,2011 SDSA7542 V2 Layout: Maggie L.

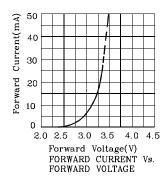


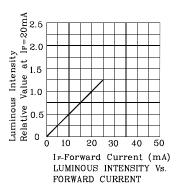


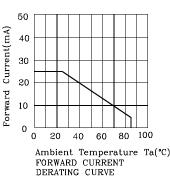


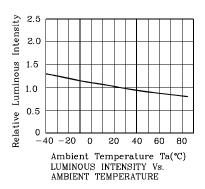


♦ DG



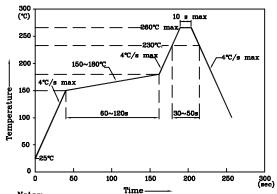






LED is recommended for reflow soldering and soldering profile is shown below.

Reflow Soldering Profile for SMD Products (Pb-Free Components)

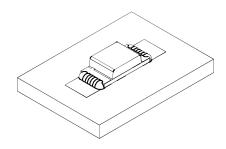


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions





❖ The device has a single mounting surface. The device must be mounted according to the specifications.

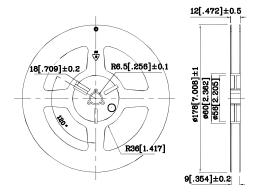


❖ Recommended Soldering Pattern (Units: mm; Tolerance: ± 0.1)

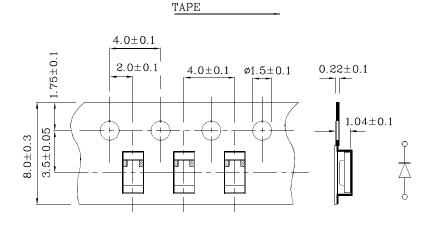
3.2mmx1.6mm SMD CHIP LED LAMP



❖ Reel Dimension



❖ Tape Specification (Units:mm)



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:

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

Note: Accuracy may depend on the sorting parameters.





PACKING & LABEL SPECIFICATIONS

