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3.5 x 2.8 mm SMD CHIP LED LAMP

### **Features**

• Ideal for indication light on hand held products

• Long life and robust package

• Variety of lens types and color choices available

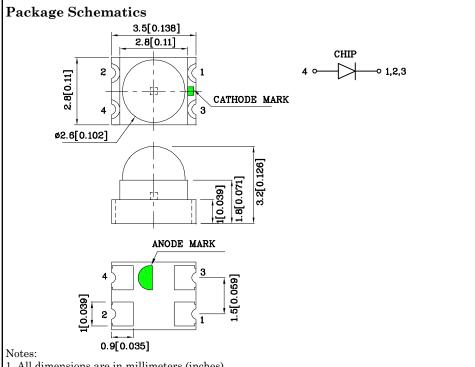
ullet Package: 500pcs / reel

• Moisture sensitivity level : level 3

• RoHS compliant







- 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 <sub>A</sub> =25°C)	VG (AlGaInP)	Unit		
Reverse Voltage	$V_{\mathrm{R}}$	5	V	
Forward Current	$I_{\mathrm{F}}$	30	mA	
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	ifs	150	mA	
Power Dissipation	$P_{D}$	75	mW	
Operating Temperature	$T_{\mathrm{A}}$	-40 ~ +85	°C	
Storage Temperature	Tstg	-40 ~ +85		

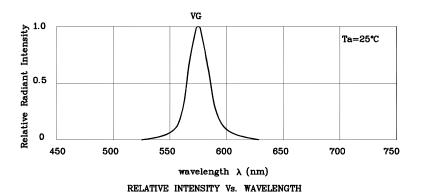
Operating Characteristics (T <sub>A</sub> =25°C)		VG (AlGaInP)	Unit	
Forward Voltage (Typ.) (I <sub>F</sub> =30mA)	$V_{\mathrm{F}}$	2.15	V	
Forward Voltage (Max.) (I <sub>F</sub> =30mA)	$V_{\mathrm{F}}$	2.5	V	
Reverse Current (Max.) (V <sub>R</sub> =5V)	$I_R$	10	uA	
Wavelength of Peak Emission (Typ.) (I <sub>F</sub> =30mA)	λΡ	574	nm	
Wavelength of Dominant Emission (Typ.) (I <sub>F</sub> =30mA)	λD	570	nm	
Spectral Line Full Width At Half-Maximum (Typ.) (I <sub>F</sub> =30mA)	$\triangle \lambda$	20	nm	
Capacitance (Typ.) (V <sub>F</sub> =0V, f=1MHz)	С	15	pF	

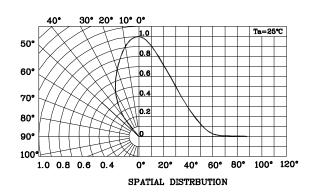
Part Number	Emitting Color	Emitting Material	Lens-color	Luminous Intensity (I <sub>F</sub> =30mA) mcd		Wavelength nm $\lambda P$	Viewing Angle 20 1/2
				min.	typ.		
XZVG45W30MAV-6	Green	AlGaInP	Water Clear	120	297	574	60°

Apr 21,2011 XDSB4690 V2 Layout: Maggie L.

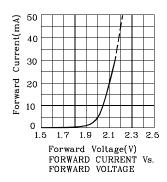


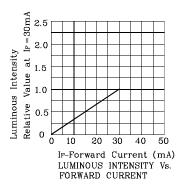


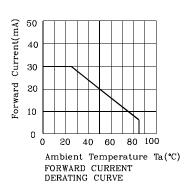


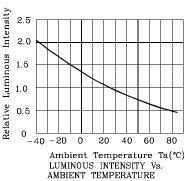


### ❖ VG



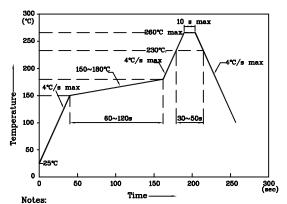






# LED is recommended for reflow soldering and soldering profile is shown below.

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

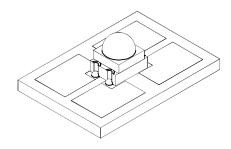


- 1. Maximum soldering temperature should not exceed 260°C
- 2. Recommended reflow temperature: 145°C-260°C
- 3. Do not put stress to the epoxy resin during high temperatures conditions

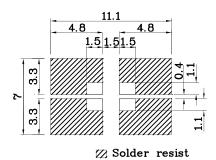




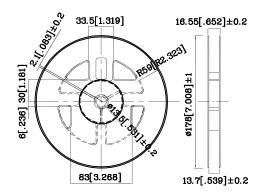
❖ The device has a single mounting surface. The device must be mounted according to the specifications.



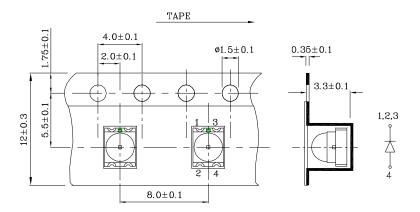
# **❖** Recommended Soldering Pattern (Units:mm; Tolerance: ± 0.1)



## **❖** 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.

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## PACKING & LABEL SPECIFICATIONS

