



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

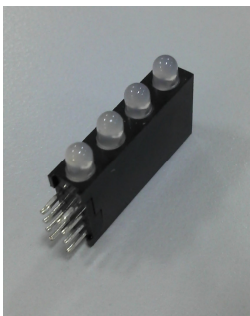
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LAMP EAAY03QLA4-RYA0



Features

- Low power consumption
- High efficiency and low cost
- Good control and free combinations on the colors of LED lamps
- Good lock and easy to assembly.
- Stackable and easy to assembly Stackable vertically and easy to assembly
- Versatile mounting on P.C board or panel
- Stackable horizontally and easy to assembly
- The product itself will remain within RoHS compliant version
- Compliance with EU REACH
- Compliance Halogen Free .(Br <900 ppm ,Cl <900 ppm , Br+Cl < 1500 ppm)

Description

- ARRAY=Plastic Holder+ Combinations of Lamps.
- The array will easily mount the applicable lamps on any panel up to.

Applications

- Used as indicators of indicating the Degree, Functions, Positions etc, in electronic instruments

Device Selection Guide

PART NO.	Chip Materials	Emitted Color	Resin Color
264-2SURSYGW/S530-A3/F182-17	AlGaInP	Brilliant Red	White Diffused
	AlGaInP	Brilliant Yellow Green	

Absolute Maximum Ratings (Ta=25°C)

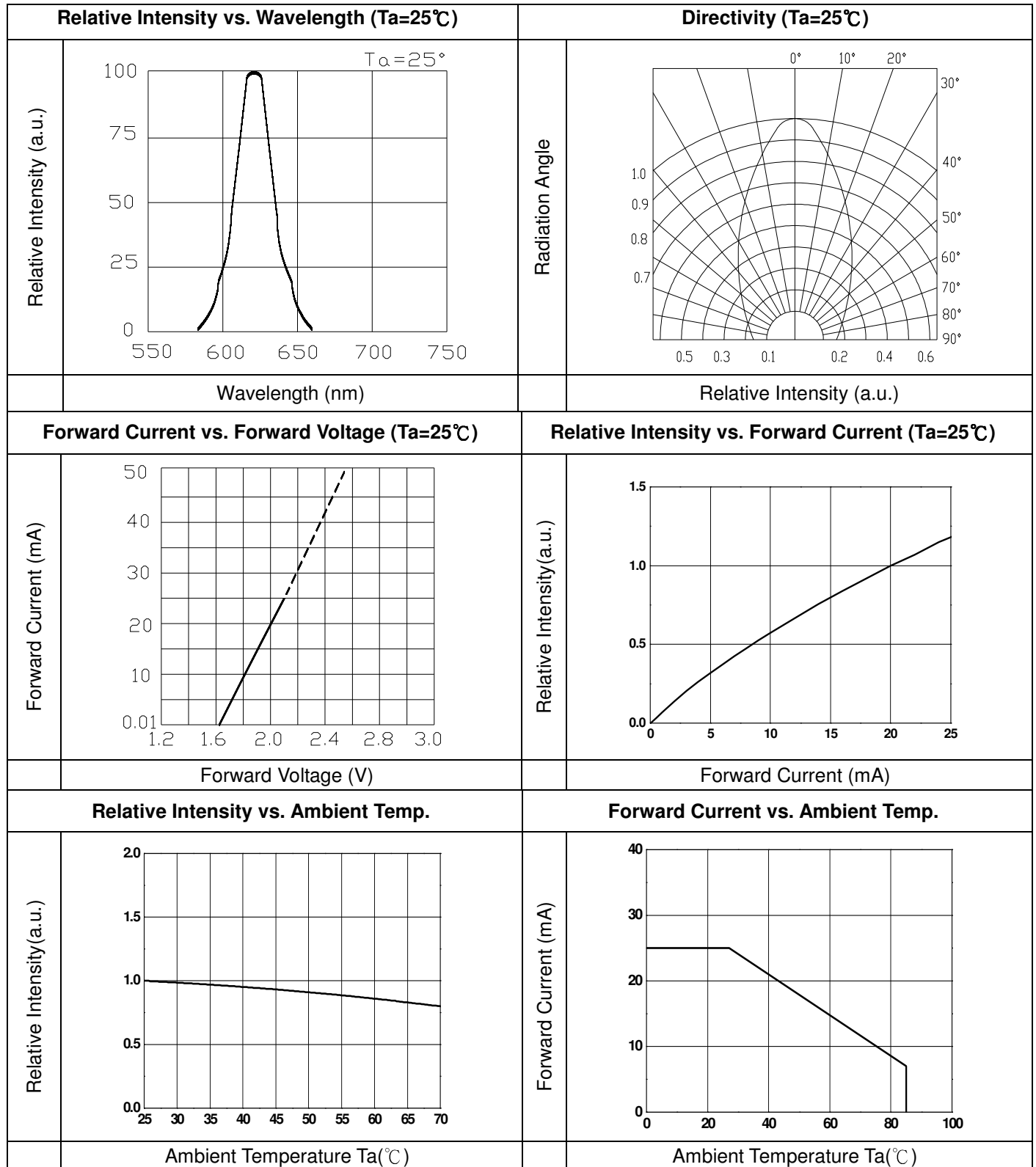
Parameter	Symbol	Rating		Unit
Continuous Forward Current	I _F	SUR	25	mA
		SYG	25	
Peak Forward Current (Duty 1/10 @ 1KHZ)	I _{FP}	SUR	60	mA
		SYG	60	
Reverse Voltage	V _R	5		V
Power Dissipation	P _d	SUR	60	mW
		SYG	60	
Operating Temperature	T _{opr}	-40 ~ +85		°C
Storage Temperature	T _{stg}	-40 ~ +100		°C
Soldering Temperature	T _{sol}	260 °C for 5 sec.		

Electro-Optical Characteristics (Ta=25°C)

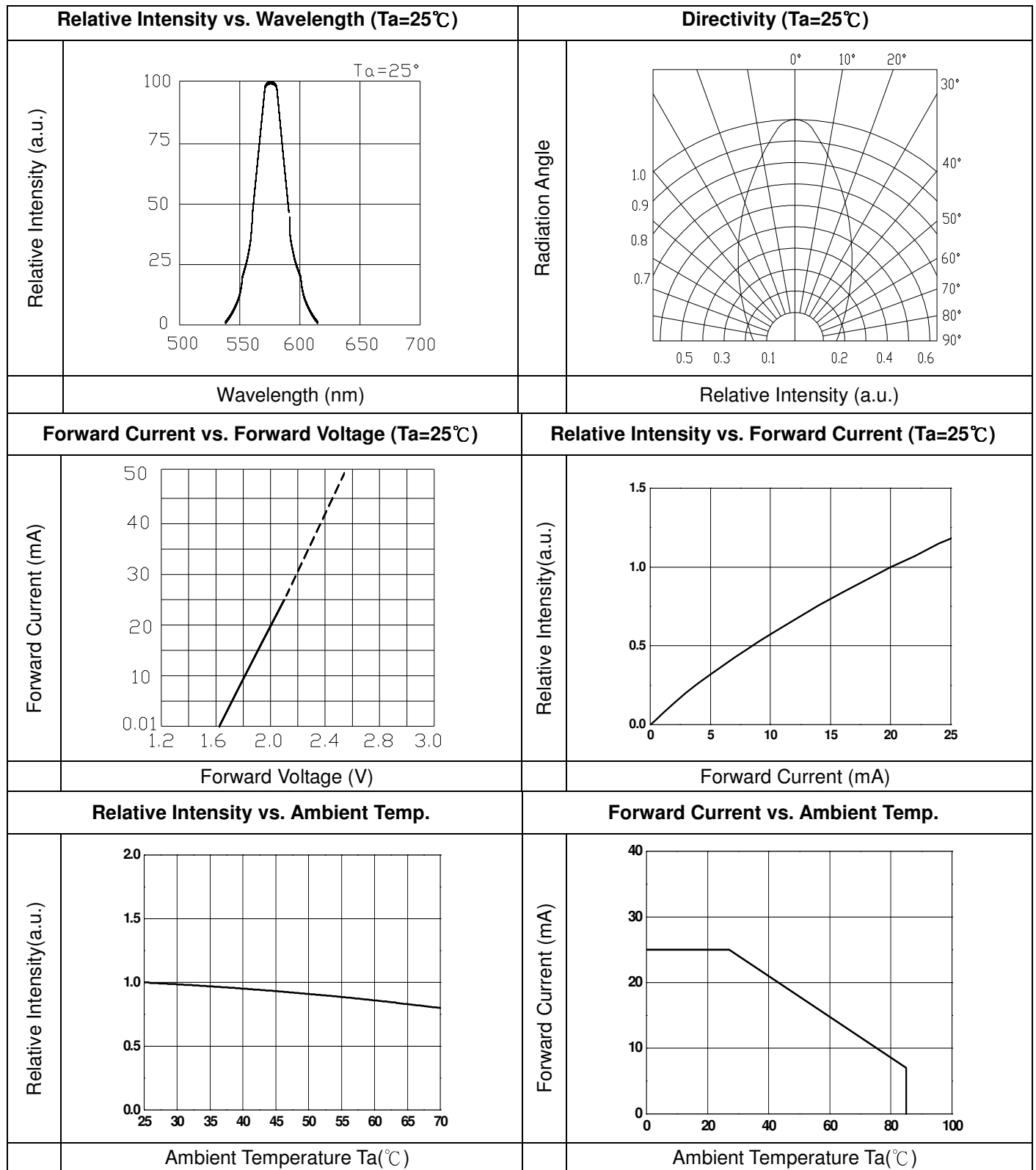
Parameter	Symbol		Min	Typ	Max	Unit	Condition
Forward Voltage	V _F	SUR	1.7	2.0	2.4	V	I _F =20mA
		SYG	1.7	2.0	2.4		
Reverse Current	I _R	SUR	----	----	10	μA	V _R =5V
		SYG	----	----	10		
Luminous Intensity	I _v	SUR	25	50	----	mcd	I _F =20mA
		SYG	16	32	----		
Viewing Angle	2θ1/2	SUR	----	60	----	deg	I _F =20mA
		SYG	----	60	----		
Peak Wavelength	λ _p	SUR	----	632	----	nm	I _F =20mA
		SYG	----	575	----		
Dominant Wavelength	λ _d	SUR	----	624	----	nm	I _F =20mA
		SYG	----	573	----		
Spectrum Radiation Bandwidth	△λ	SUR	----	20	----	nm	I _F =20mA
		SYG	----	20	----		

Typical Electro-Optical Characteristics Curves

SUR



SYG

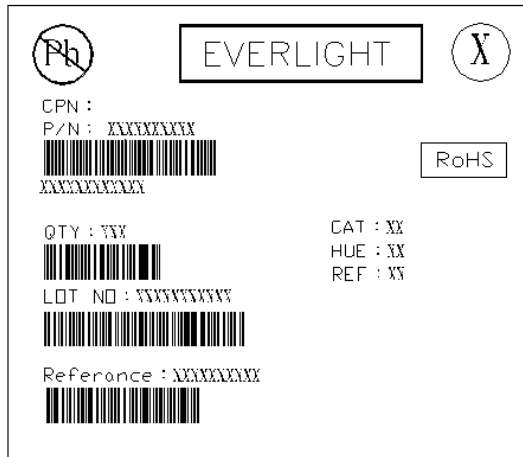


[illegible]

1. All dimensions are in millimeters, tolerance is $\pm 0.25\text{mm}$ except being specified
2. Lead spacing is measured where the lead emerge from the package.

Moisture Resistant Packing Materials

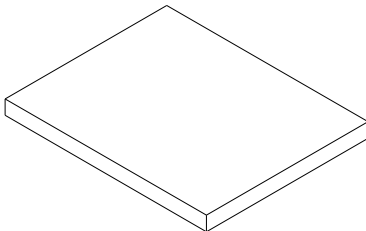
Label Explanation



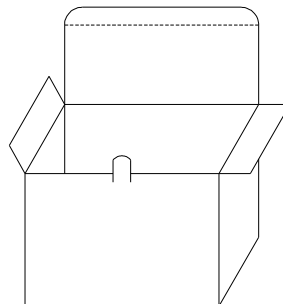
- CPN: Customer's Production Number
- P/N : Production Number
- QTY: Packing Quantity
- CAT: Ranks of Luminous Intensity
- HUE: Ranks of Dominant Wavelength
- REF: Ranks of Forward Voltage
- LOT No: Lot Number

Packing Specification

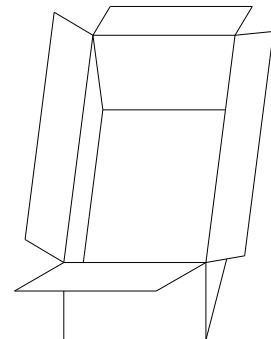
■ Anti-electrostatic Plate



■ Inner Carton



■ Outside Carton



■ Packing Quantity

1. 140 PCS/1 Plate, 3 Plates/1 Inner Carton
2. 10 Inner Cartons/1 Outside Carton

Notes

1. Lead Forming

- During lead formation, the leads should be bent at a point at least 3mm from the base of the epoxy bulb.
- Lead forming should be done before soldering.
- Avoid stressing the LED package during leads forming. The stress to the base may damage the LED's characteristics or it may break the LEDs.
- Cut the LED lead frames at room temperature. Cutting the lead frames at high temperatures may cause failure of the LEDs.
- When mounting the LEDs onto a PCB, the PCB holes must be aligned exactly with the lead position of the LED. If the LEDs are mounted with stress at the leads, it causes deterioration of the epoxy resin and this will degrade the LEDs.

2. Storage

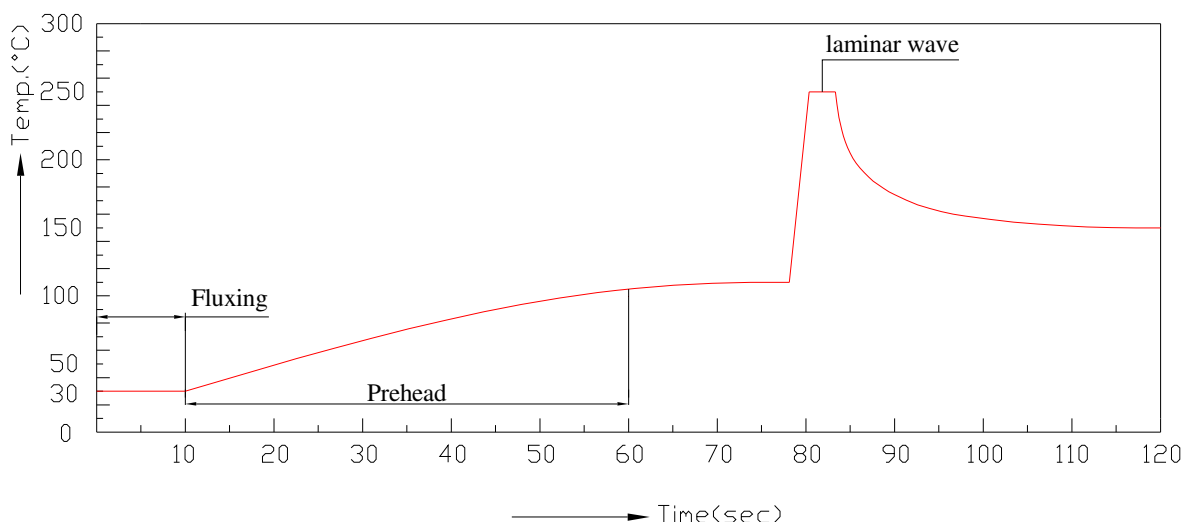
- The LEDs should be stored at 30°C or less and 70%RH or less after being shipped from Everlight Americas and the storage life limits are 3 months. If the LEDs are stored for 3 months or more, they can be stored for a year in a sealed container with a nitrogen atmosphere and moisture absorbent material.
- Please avoid rapid transitions in ambient temperature, especially, in high humidity environments where condensation can occur.

3. Soldering

- Careful attention should be paid during soldering. When soldering, leave more than 3mm from solder joint to epoxy bulb, and soldering beyond the base of the tie bar is recommended.
- Recommended soldering conditions:

Hand Soldering		DIP Soldering	
Temp. at tip of iron	300°C Max. (30W Max.)	Preheat temp.	100°C Max. (60 sec Max.)
Soldering time	3 sec Max.	Bath temp. & time	260 Max., 5 sec Max
Distance	3mm Min.(From solder joint to epoxy bulb)	Distance	3mm Min. (From solder joint to epoxy bulb)

- Recommended soldering profile



- Avoiding applying any stress to the lead frame while the LEDs are at high temperature particularly when soldering.
- Dip and hand soldering should not be done more than one time
- After soldering the LEDs, the epoxy bulb should be protected from mechanical shock or vibration until the LEDs return to room temperature.

- A rapid-rate process is not recommended for cooling the LEDs down from the peak temperature.
 - Although the recommended soldering conditions are specified in the above table, dip or hand soldering at the lowest possible temperature is desirable for the LEDs.
 - Wave soldering parameter must be set and maintain according to recommended temperature and dwell time in the solder wave.
4. Cleaning
- When necessary, cleaning should occur only with isopropyl alcohol at room temperature for a duration of no more than one minute. Dry at room temperature before use.
 - Do not clean the LEDs by the ultrasonic. When it is absolutely necessary, the influence of ultrasonic cleaning on the LEDs depends on factors such as ultrasonic power and the assembled condition. Ultrasonic cleaning shall be pre-qualified to ensure this will not cause damage to the LED
5. Heat Management
- Heat management of LEDs must be taken into consideration during the design stage of LED application. The current should be de-rated appropriately by referring to the de-rating curve found in each product specification.
 - The temperature surrounding the LED in the application should be controlled. Please refer to the data sheet de-rating curve.
6. ESD (Electrostatic Discharge)
- The products are sensitive to static electricity or surge voltage. ESD can damage a die and its reliability.
When handling the products, the following measures against electrostatic discharge are strongly recommended:
 - Eliminating the charge
 - Grounded wrist strap, ESD footwear, clothes, and floors
 - Grounded workstation equipment and tools
 - ESD table/shelf mat made of conductive materials
 - Proper grounding is required for all devices, equipment, and machinery used in product assembly.
Surge protection should be considered when designing of commercial products.
 - If tools or equipment contain insulating materials such as glass or plastic,
the following measures against electrostatic discharge are strongly recommended:
 - Dissipating static charge with conductive materials
 - Preventing charge generation with moisture
 - Neutralizing the charge with ionizers
7. Directions for use
- The LEDs should be operated with forward bias. The driving circuit must be designed so that the LEDs are not subjected to forward or reverse voltage while it is off. If reverse voltage is continuously applied to the LEDs, it may cause migration resulting in LED damage.
8. Other
- Above specification may be changed without notice. Everlight Americas will reserve authority on material change for above specification.
 - When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. Everlight Americas assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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