



**ATTENTION**  
OBSERVE PRECAUTIONS  
FOR HANDLING  
ELECTROSTATIC  
DISCHARGE  
SENSITIVE  
DEVICES

AA5060PWC/G

WHITE

### Features

- SINGLE COLOR.
- SUITABLE FOR ALL SMT ASSEMBLY AND SOLDER PROCESS.
- AVAILABLE ON TAPE AND REEL.
- IDEAL FOR BACKLIGHTING.
- PACKAGE : 500PCS / REEL.
- LEAD AND CADMIUM FREE.

### Description

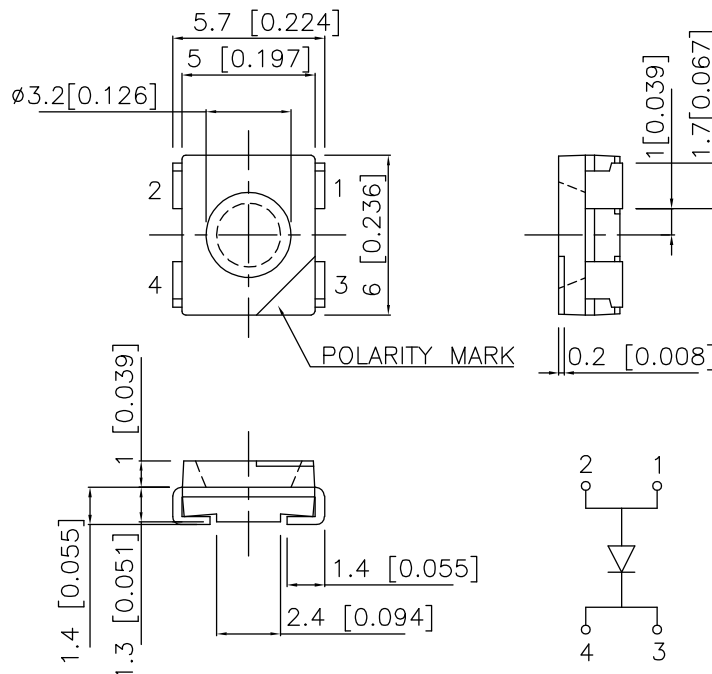
The source color devices are made with InGaN on SiC Light Emitting Diode.

Static electricity and surge damage the LEDs.

It is recommended to use a wrist band or anti-electrostatic glove when handling the LEDs.

All devices, equipment and machinery must be electrically grounded.

### Package Dimensions



#### 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.

## Selection Guide

Part No.	Dice	Lens Type	Iv (mcd) @ 30mA		Viewing Angle
			Min.	Typ.	2θ1/2
AA5060PWC/G	WHITE (InGaN)	WATER CLEAR	380	800	100°

Note:

1. θ1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.

## Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Typ.	Max.	Units	Test Conditions
V <sub>F</sub>	Forward Voltage	White	3.6	4.3	V	I <sub>F</sub> =20mA
I <sub>R</sub>	Reverse Current	White		10	uA	V <sub>R</sub> = 5V
X	Chromaticity Coordinates	White	0.33			
Y			0.34			
C	Capacitance	White	110		pF	V <sub>F</sub> =0V;f=1MHz

## Absolute Maximum Ratings at TA=25°C

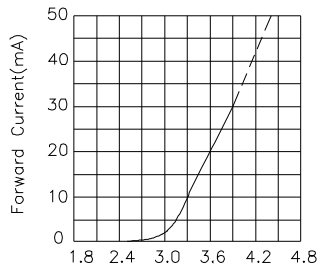
Parameter	White	Units
Power dissipation	129	mW
DC Forward Current	30	mA
Peak Forward Current [1]	150	mA
Reverse Voltage	5	V
Operating/Storage Temperature	-40°C To +85°C	

Note:

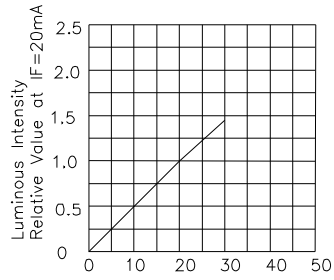
1. 1/10 Duty Cycle, 0.1ms Pulse Width.

White

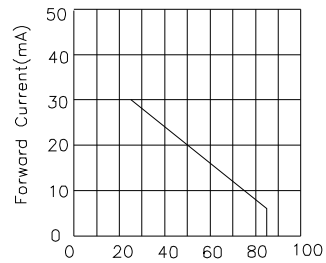
AA5060PWC/G



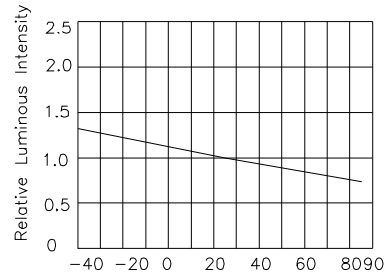
Forward Voltage(V)  
FORWARD CURRENT Vs  
FORWARD VOLTAGE



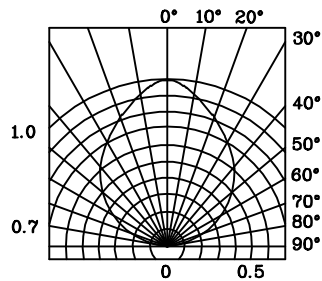
IF-Forward Current (mA)  
LUMINOUS INTENSITY Vs.  
FORWARD CURRENT



Ambient Temperature TA(°C)  
FORWARD CURRENT  
DERATING CURVE



Ambient Temperature TA(°C)  
LUMINOUS INTENSITY Vs.  
AMBIENT TEMPERATURE

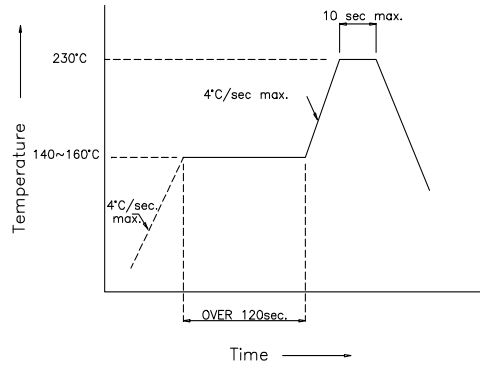


SPATIAL DISTRIBUTION

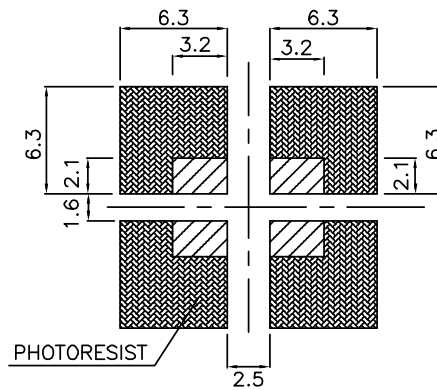
## AA5060PWC/G

### SMT Reflow Soldering Instructions

Number of reflow process shall be less than 2 times and cooling process to normal temperature is required between first and second soldering process.



### Recommended Soldering Pattern (Units : mm)



### Tape Specifications (Units : mm)

