

Полоска ARL-LB003H241WW 5W Warm 3000K (290x12мм)

Полоска ARL-LB003H241W 5W White 6000K (290x12мм)



Features

- Single color.
- Emitting Color:Green
- Easy installation with screws.
- Package:100pcs/white box.
- High efficiency.
- Low power consumption.
- Long operating lifespan.
- High heat dissipation efficiency.
- RoHS compliant.

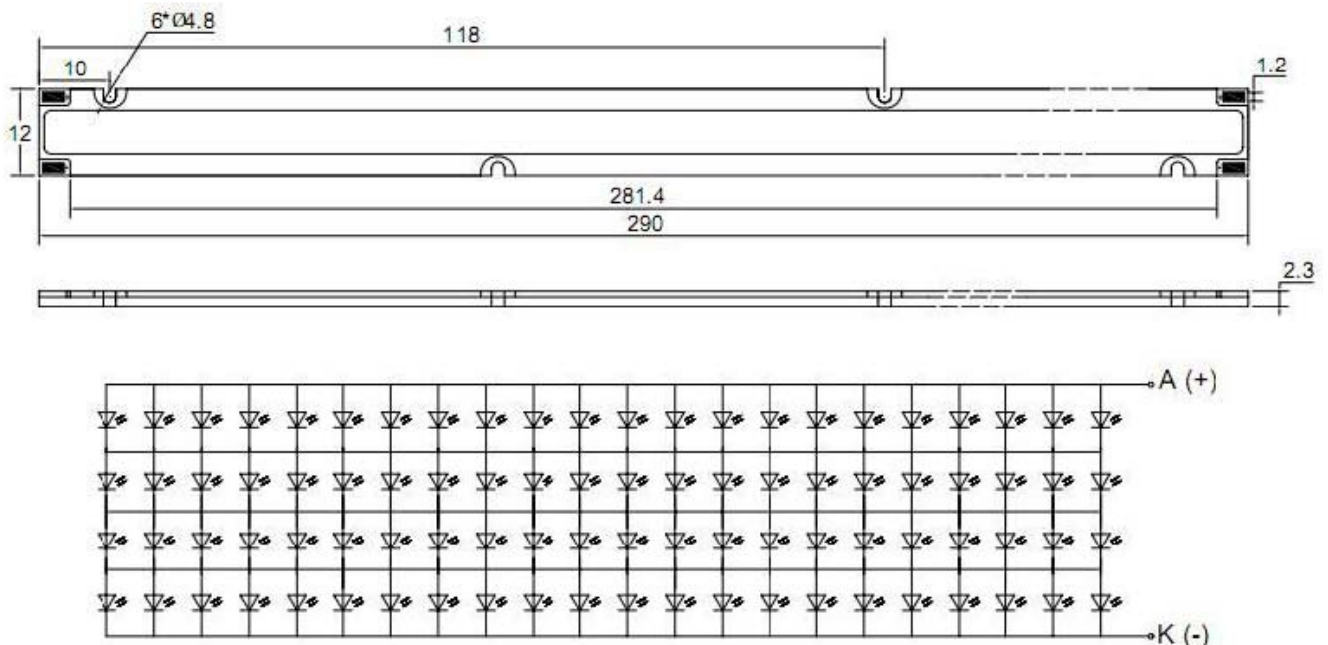
Description

- The White source color devices are made with GaN on sapphire White Light Emitting Diode.

Applications

- Reading Lamp.
- Street Lamp.
- LED Backlight.
- Energy Saving Lamp.
- Decorative and Entertainment Lighting.
- Indoor and Outdoor Commercial Lighting.

Package Dimensions



Notes:

1. All dimension units are millimeters.
2. All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted.

Part No.	Chip		Lens Color
	Material	Emitting Color	
Полоска ARL-LB003H241WW 5W Warm 3000K	InGaN	White	Yellow Diffused

Electrical / Optical Characteristics at TA=25°C

Symbol	Parameter	Device	Min.	Typ.	Max.	Units	Test Conditions
VF	Forward Voltage (1)	Warm White / White	—	12.0	14.0	V	IF=400mA
2q1/2	Viewing Angle (2)	Warm White / White	—	120	—	deg	IF=400mA
Φv	Luminous Intensity(3)	Warm White / White	220	280	—	lm	IF=400mA
TC	Color Temperature(4)	Warm White		3000		k	IF=400mA
TC	Color Temperature(4)	Warm White / White	6000		7000	k	IF=400mA
IR	Reverse Current	Warm White /White	—		10	uA	VR = 5V
C	Capacitance	Warm White /White	—	100	—	pF	VF=0V;f=1MHz

Note:

- 1.Forward Voltage is measured with an accuracy of $\pm 0.1v$.
- 2.q1/2 is the angle from optical centerline where the luminous intensity is 1/2 the optical centerline value.
- 3.luminous intensity is measured with the accuracy of $\pm 10\%$.
- 4.Color temperature measured with the accuracy $\pm 200K$.

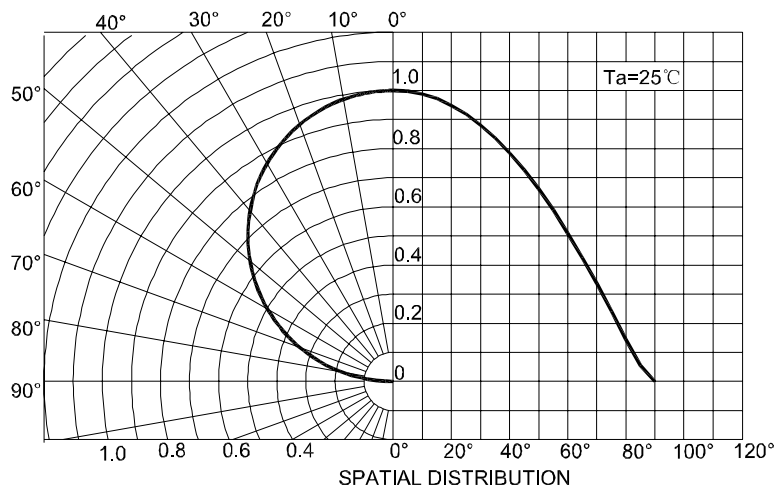
Absolute Maximum Ratings at TA=25°C

Parameter	White	Units
Power dissipation	5.6	W
DC Forward Current	400	mA
Peak Forward Current [1]	800	mA
Reverse Voltage	5	V
ESD Sensitivity	500	V
Junction temperature	125	°C
Soldering temperature	260	°C
Manual Soldering time at 260°C(Max)	5	sec
Operating Temperature Range	-30°C To +100°C	
Storage Temperature Range	-40°C To +120°C	

Note:

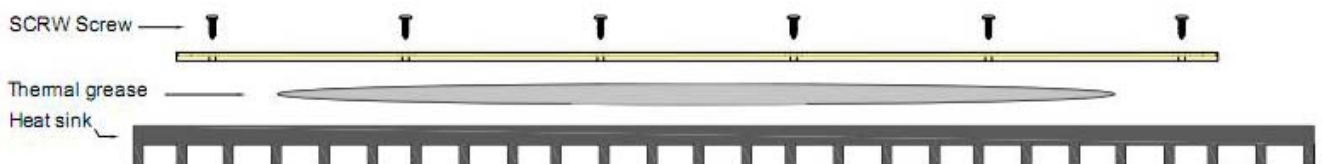
1. 1/10 Duty Cycle, 0.1ms Pulse Width.
2. The temperature of Aluminum PCB dose not exceed 55°C

Spatial Distribution Graph



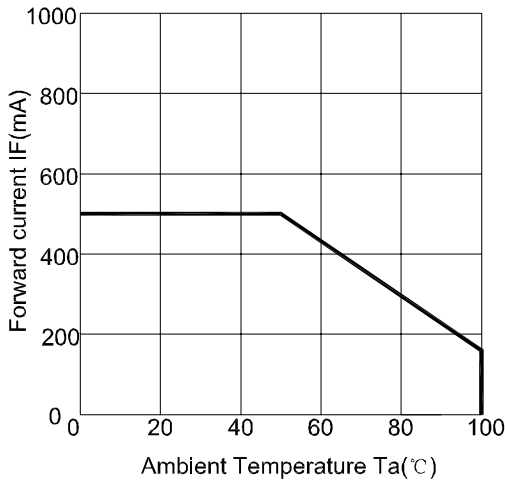
Product Thermal Application Information

When assembling on PCB or heatsink carrier, thermal grease should be evenly speeded with a thickness <math>< 100\mu\text{m}</math>.

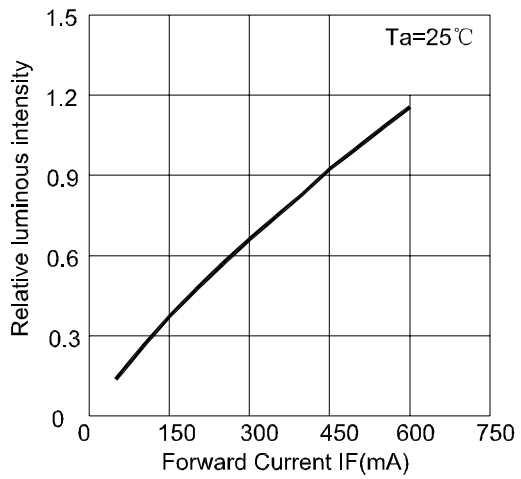


Typical Optical and Electrical Characteristics Curves

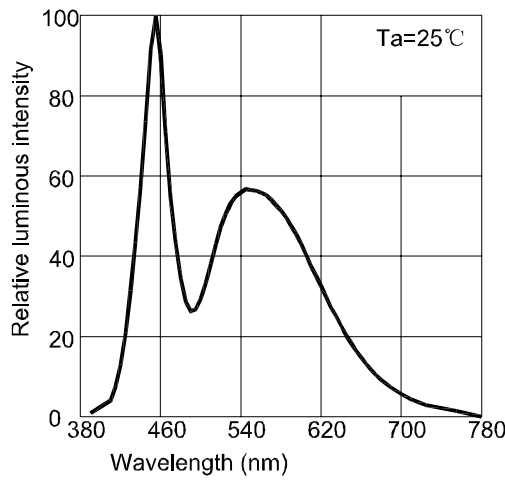
Forward Current vs. Ambient Temperature



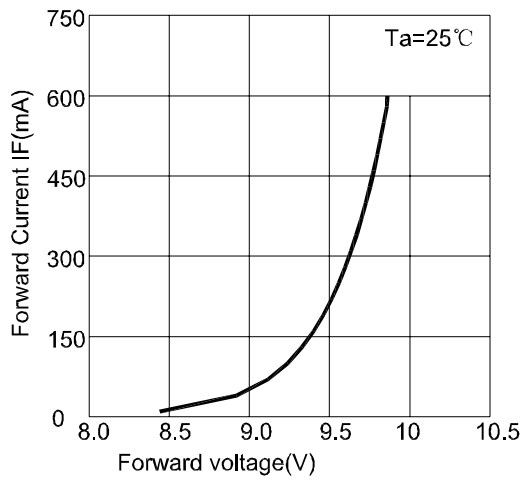
Forward Current vs. Luminous Intensity



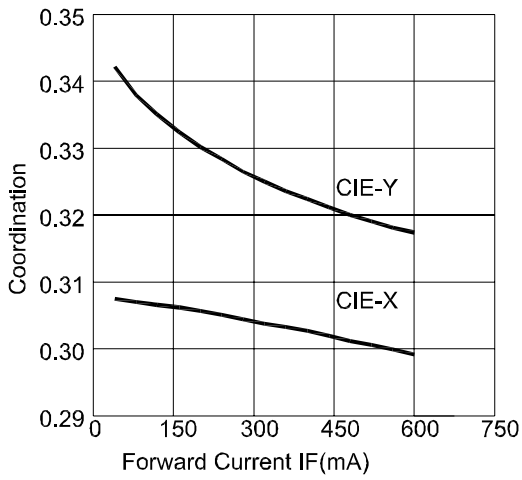
Wavelength characteristics



Forward Voltage vs. Forward Current



Forward Current vs. chromaticity coordinate



Ambient Temperature vs. Forward Voltage

