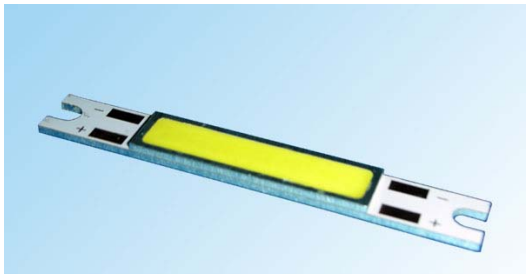
ARL-LB001D17 White



Features

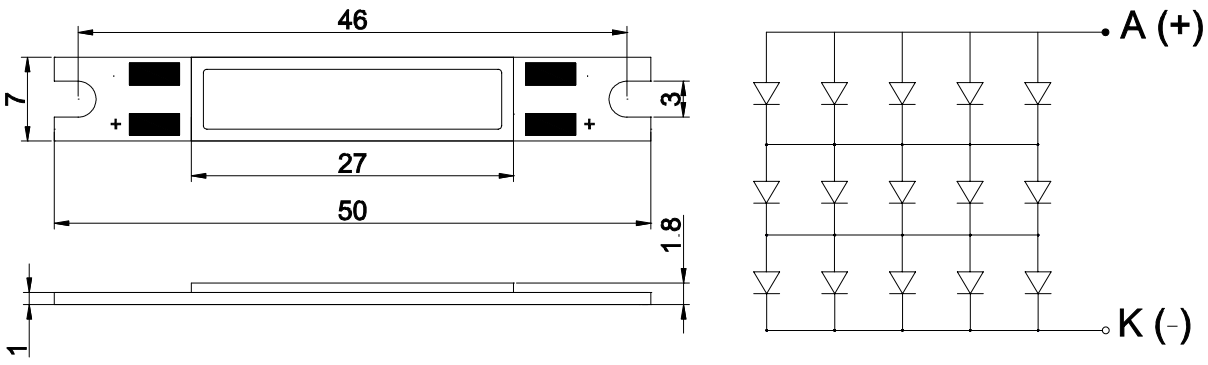
- Single Color.
- Illuminant Color：White.
- Emission angle:120Deg.
- Linear Packaging Design.
- High Efficiency.
- Low Power Consumption.
- Long Operating Lifespan.
- Easy Installation with Screws.
- High Heat dissipation Efficiency.

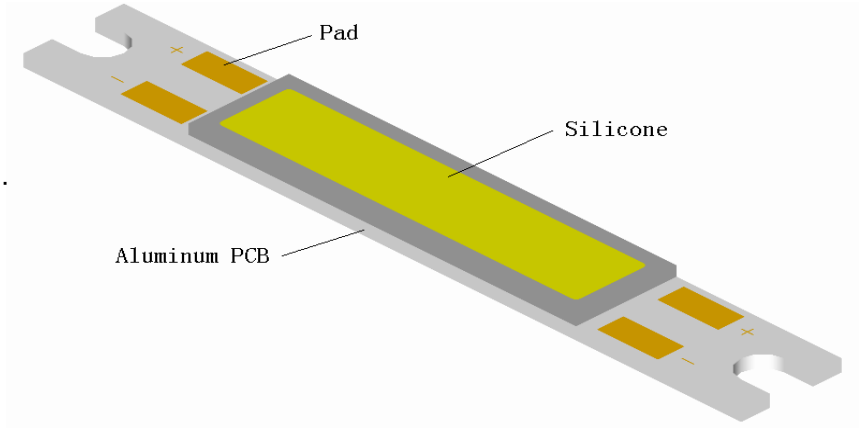
Applications

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

Part number	Dimension （L*W*H） mm	Chip		Colloid Type
		Emitter color	Material	
ARL-LB001D17 White	50*7*1.8	White	InGaN	Yellow Diffuse

LED Package Dimensions and Polarity





Notes:

1. All dimensions are measured in mm.
2. Tolerance: ±0.2.
3. The temperature of Aluminum PCB dose not exceed 55℃.

Absolute Maximum Rating at T_A=25℃

Table 1 Absolute Maximum Rating For Product

Parameter	Symbol	Rating(White)	Unit
DC Forward current	IF	500	mA
Peak plus current	IFM	1000	mA
Reverse voltage	VR	5	V
ESD Sensitivity	VB	500	V
Power dissipation	PD	5	W
Junction temperature	Tj	125	℃
Operating temperature	Topr	-30~+100	℃
Storage temperature	Tstg	-40~+120	℃
Soldering temperature	Tsol	260	℃
Manual Soldering time at 260℃(Max)	--	5	sec

Notes:

1. Proper current rating must be observed to maintain junction temperature below the maximum at all time.
2. LEDS are not designed to be driven in reverse bias.
3. IFM condition：0.1ms Pulse width , Duty Cycle=0.25.

Color Temperature Characteristics (TA=25℃)

Part Number	Device	Test Current	Color Temperature			Unit
			Min	Typ.	Max	
	Warm white	IF=500mA	2500	--	3800	K
	Neutral white		3800	--	5000	
	Cool white		5000	--	10000	

Note : Color temperature measured with the accuracy ±200K.

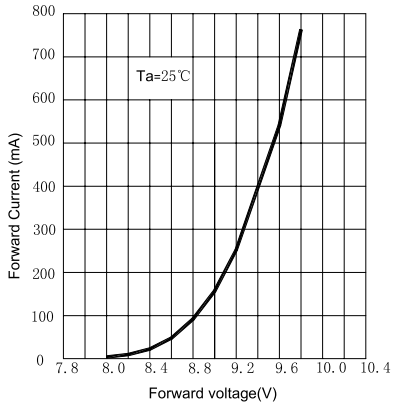
Product luminous flux characteristics at TA=25℃

Part Number	Color	Test Current(mA)	Flux			
			Min	Typ.	Max	Unit
	Warm white	500	110	170	--	lm
	Neutral white	500	130	190	--	lm
	Cool white	500	140	210	--	lm

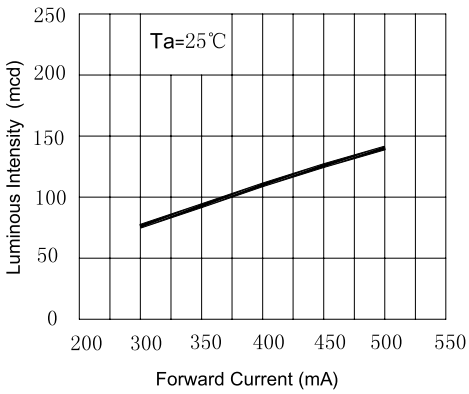
Note: Flux is measured with the accuracy of ±10%.

Typical Electro-Optical Characteristics Curves

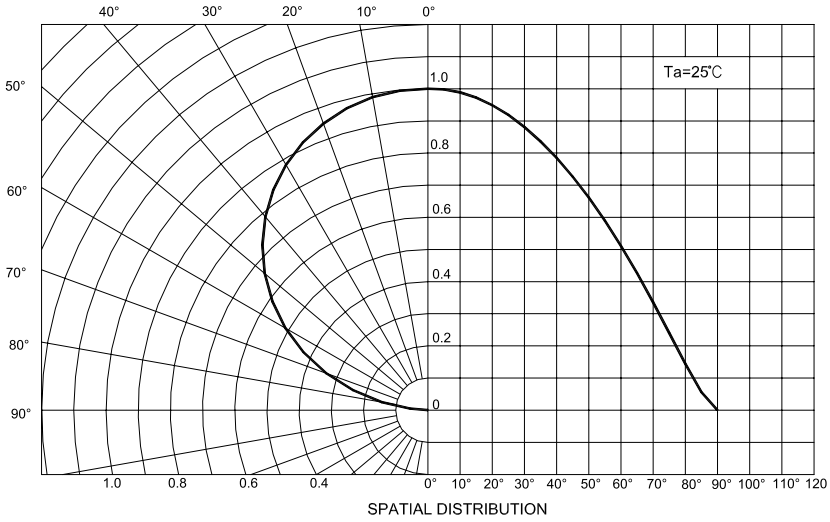
Forward Voltage vs Forward Current



Forward Current vs Luminous Intensity

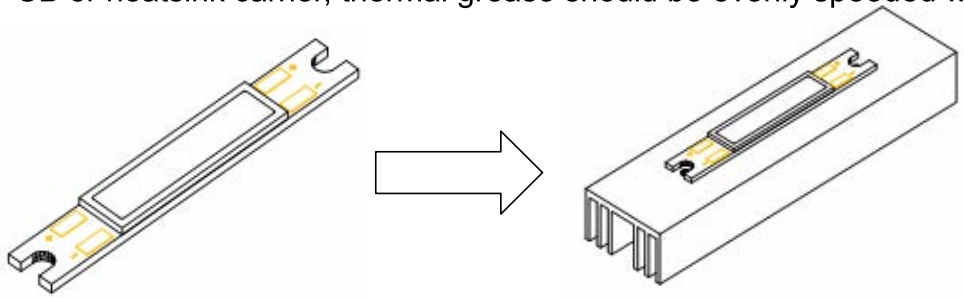


Spatial Distribution Graph

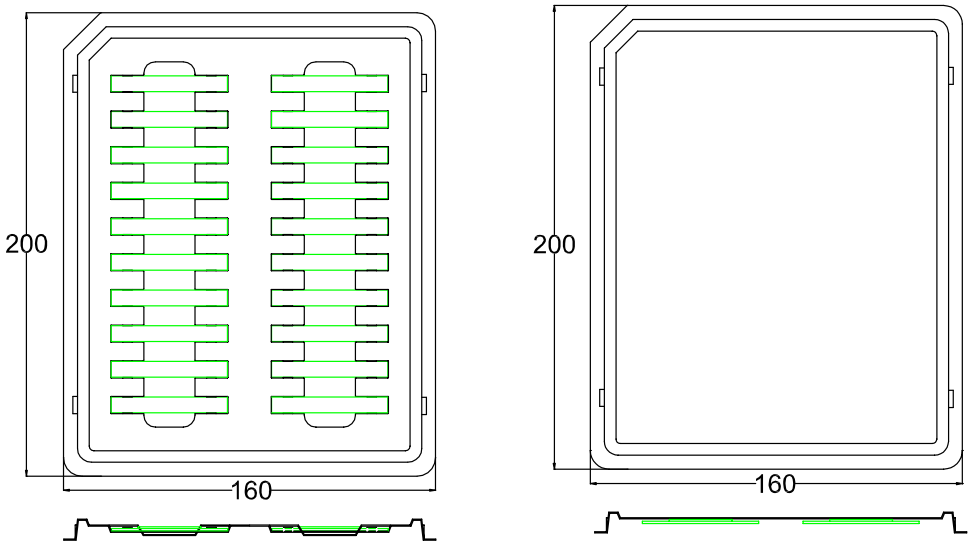


Product Thermal Application Information

When assembling on PCB or heatsink carrier, thermal grease should be evenly speeded with a thickness<100um.



Product Packaging information



Note:

1. There are 20pcs emitters in a tray package.
2. Package storage condition will be limited temperature 20~30℃ RH 40%~55%.