

51\*33 mm Single Color LCD Backlight  
Technical Data Sheet

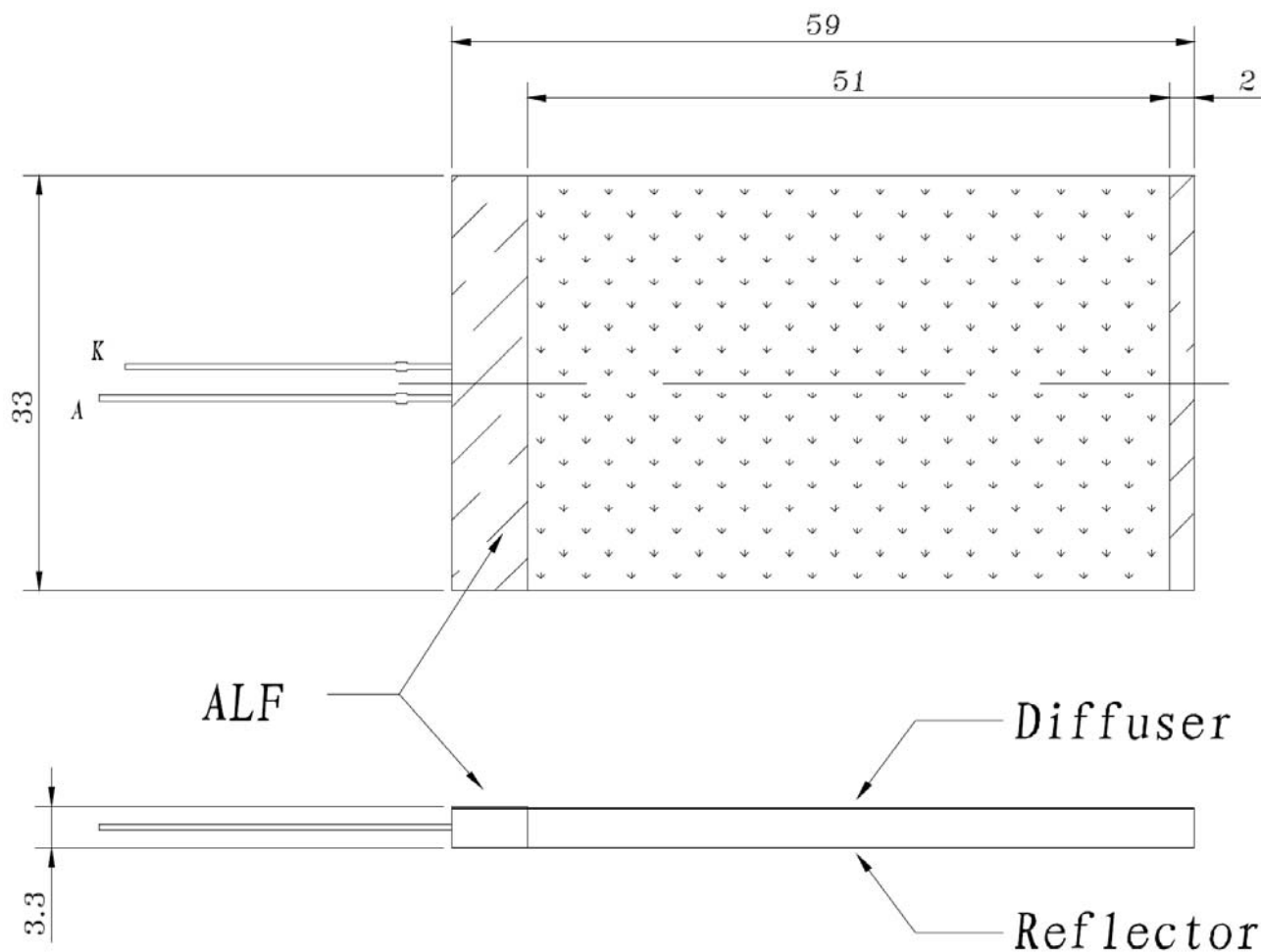
Part No: KWB-R5133W-1W

Color : White

LED Chip Material: InGaN



## Mechanical Outline



### Notes:

1. LED Lamp Q'ty : 1 pcs (White LED Lamp)
2. All dimensions are in millimeters .
3. Tolerance is  $\pm 0.3$  mm unless otherwise noted.
4. Specifications are subject to change without notice.

## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Condition	Rating	Unit
Continuous Forward Current	Ifm	---	30	mA
Peak forward Current	Ifp	1 msec Plus 10% Duty Cycle	50	mA
Reverse Voltage	Vr		5	V
Power Dissipation	Pd		100	mW
Operating Temperature	Topr		-20~+70	°C
Storage Temperature	Tstg		-20~+75	°C

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Current	If	15	20	25	mA	Vf=3.3V
Forward Voltage	Vf	2.8	3.3	4.0	V	IF=20mA
Reverse Current	Vr	--	--	10	μA	Vr=5V
Luminance (Without Glass)	Lv	56	66	75	cd/m2	IF=20mA
Chromaticity Coordinates	X	---	0.28	---		IF=20mA
	Y	---	0.29	---		

### Note:

- The dominant wavelength ( $\lambda_d$ ) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

## Cautions

### ■Storage:

- ◇ Storing the units in bad condition will cause the reflector sheet and decrease it's adhesive power. Storage the products under the condition: temperature ( $25^{\circ}\text{C} \pm 10^{\circ}\text{C}$ ) and humidity ( $65^{\circ}\text{CRH} \pm 20^{\circ}\text{CRH}$ ) our recommendation.

### ■Soldering:

- ◇ The soldering Temperature is  $260 \pm 5^{\circ}\text{C}$  and Soldering Time should be less than 3 sec, and soldering iron power should be less than 30W.
- ◇ The soldering point should be farther than 1.6mm from body.

### ■ESD (Electrostatic Discharge)

- ◇ Static electricity and surge will 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 properly grounded.