

104\*31mm Single Color LCD Backlight  
Technical Data Sheet

Part No: KWB-R10431W-6W

Color : White

LED Chip Material: InGaN





## Absolute Maximum Ratings at Ta=25°C

Parameter	Symbol	Condition	Rating	Unit
Continuous Forward Current	I <sub>fm</sub>	---	90	mA
Peak forward Current	I <sub>fp</sub>	1 msec Plus 10% Duty Cycle	150	mA
Reverse Voltage	V <sub>r</sub>		5	V
Power Dissipation	P <sub>d</sub>		300	mW
Operating Temperature	T <sub>opr</sub>		-20~+70	°C
Storage Temperature	T <sub>stg</sub>		-20~+75	°C

## Electrical Optical Characteristics at Ta=25°C

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Forward Current	I <sub>f</sub>	45	60	75	mA	V <sub>f</sub> =6.6V
Forward Voltage	V <sub>f</sub>	5.6	6.6	8.0	V	I <sub>F</sub> =60mA
Reverse Current	V <sub>r</sub>	--	--	30	μA	V <sub>r</sub> =5V
Luminance (Without Glass)	L <sub>v</sub>	70	75	80	cd/m <sup>2</sup>	I <sub>F</sub> =60mA
Dominant wavelength	X	---	0.27	---	nm	I <sub>F</sub> =60mA
	Y	---	0.27	---		

### 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.