

Brief Introduction of LED Module

1. VAOPTO LED applied products include display modules, device backlights, and other customized products.



Display Module Series



Backlight Series

2. Some applications include backlighting for household appliances such as air-conditioner, water heater, digital player, etc.



Air-conditioner



Mobile phone

3. Features: bright colors, novel structure (appearance patented), low power, good reliability, and long lifespan.



LED Module

Display Module Series



Display Module Series

Features

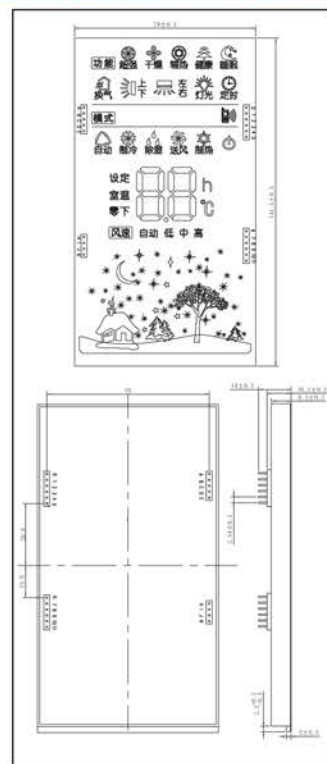
- Features: bright colors, novel structure, low power and long lifespan
- Color: white, red, orange, yellow, green, blue and white;
- Mainly used for household appliances such as air-conditioner, water heater, digital player and etc.

Absolute Maximum Ratings:

Parameter	Symbol	Rating
Forward Current	I_F	20mA
Pulse Forwards Current	I_{FP}	80mA
Reverse Voltage	V_R	5V
Working Temperature	T_{OPR}	-20~+60°C
Storage Temperature	T_{STG}	-25~+75°C

• Pulse Width ≤ 0.1ms, Duty Cycle ≤ 1/10

Outline Dimensions/ Unit: mm



Parameter/ $T_a=25^\circ\text{C}$:

Part Number	Color	$I_F(\text{mA})$ TEST	$\lambda_0(\text{nm})/XY$ Typ.	$I_V(\text{mcd})$ Typ.	$V_F(\text{V})$	
					Typ.	Max
VO-D310F33	Red	20	624	80	2.0	2.6
	white	20	X=0.275 Y=0.295	400	3.0	3.6



LED Module

LED Backlight Modules Series



LEDBacklight Series

Features

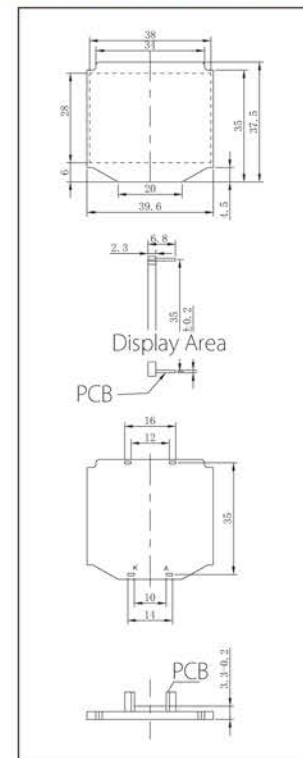
- Customized design is acceptable;
- Mainly used for backlight of LED display such as mobile phone, game machine, MP4 and etc.

Absolute Maximum Ratings:

Parameter	Symbol	Rating
Forward Current	I_F	20×3 mA
Pulse Forwards Current	I_{FP}	60×3 mA
Reverse Voltage	V_R	5V
Working Temperature	T_{OPR}	-20~+70°C
Storage Temperature	T_{STG}	-30~+80°C

• Pulse Width≤0.1ms, Duty Cycle≤1/10

Outline Dimensions/ Unit: mm



Parameter/ $T_a=25^{\circ}\text{C}$:

Part Number	Color	$I_F(\text{mA})$ TEST	$\lambda_D(\text{nm})$ Typ.	$L_v(\text{cd/m}^2)$ Typ.	$V_F(V)$	
					Typ.	Max
VO-FBL-1608YEK3AV (MD)	Yellow	10×3	590	20	2.0	2.6