



16 Bar Graph Displays

PART NO. : ELB-202UBWA ECN : Page: 1/5

■ Features :

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.

■ Applications;

- Audio equipment
- Instrument panels
- Digital read out display

■ Descriptions :

- The ELB-202 series are Sixteen-element bar graph displays. designed for viewing distances up to 7 meters.
- There are separate anodes and cathodes for each light segment and choice of five colors is offered.
- These devices are made with white segments and gray surface.

PART NO.	Chip	
	Material	Emitted Color
ELB-202UBWA	GaN/SiC	Blue

OFFICE : 7c Building ,Lian Hua Port Industrial District, Lian Hua Shan Bonded Processing
Zone Pan Yu, Guang Zhou, China

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<http://www.everlight.com>

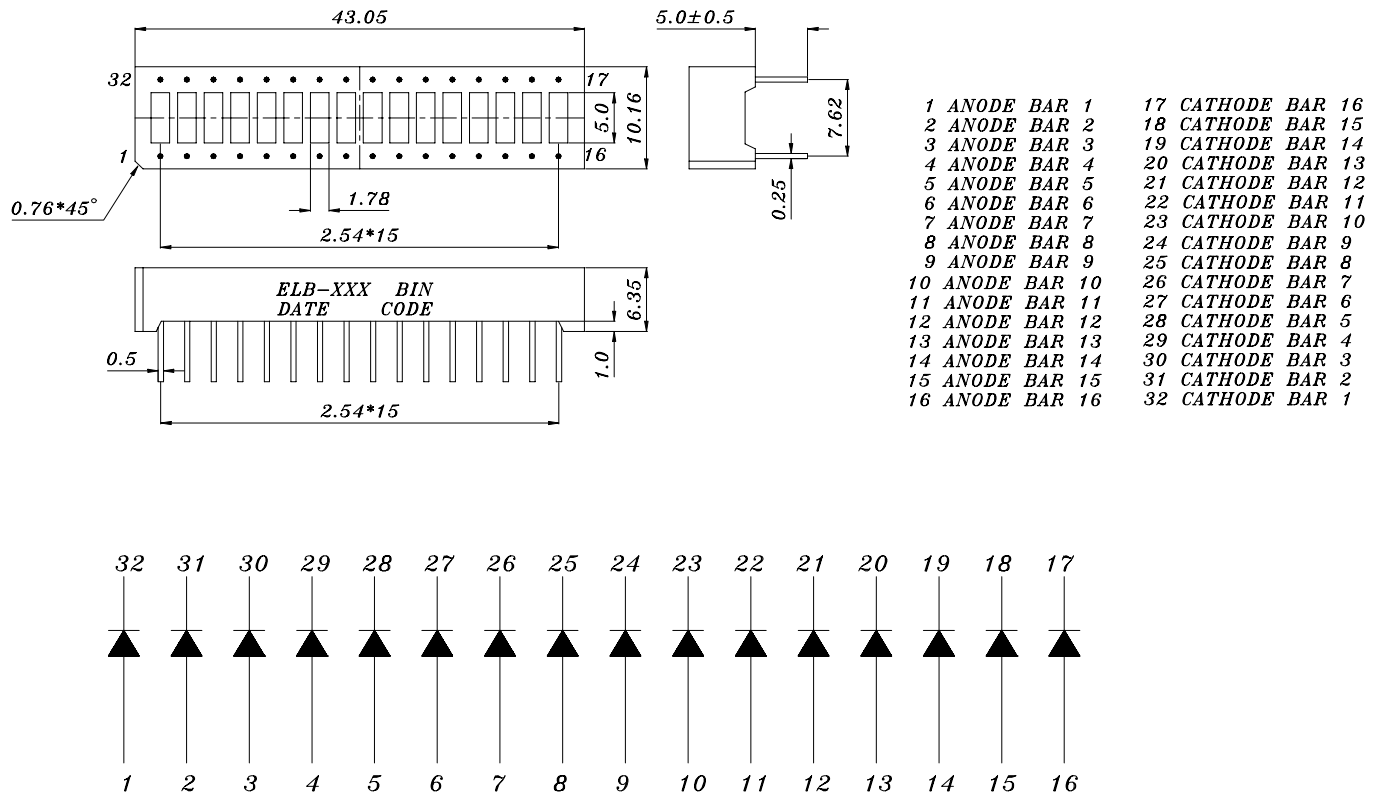
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Package Dimensions:



Notes:

- 1.All dimensions are in millimeter tolerance is 0.25mm unless otherwise noted.
- 2.Above specification may be changed without notice.
Supplier will reserve authority on material change for above specification.



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■ Absolute Maximum Ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	VR	5	V
Forward Current	IF	30	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	TsTg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	1000	V
Power Dissipation	Pd	140	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	70	mA

■ Electronic Optical Characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	4.0	6.4	----	mcd	IF=10mA
Peak Wavelength		λ p	----	428	----	nm	IF=20mA
Dominant Wavelength		λ d	----	466	----	nm	IF=20mA
Spectrum Radiation Bandwidth		△ λ	----	65	----	nm	IF=20mA
Forward Voltage		VF	----	3.8	4.5	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V

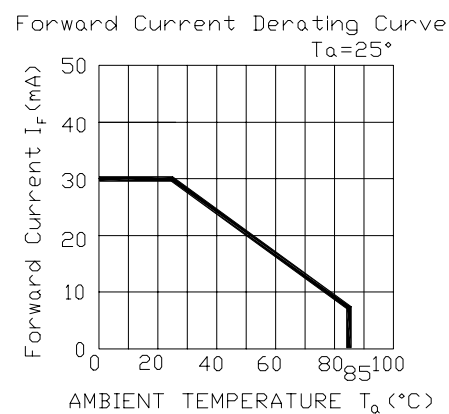
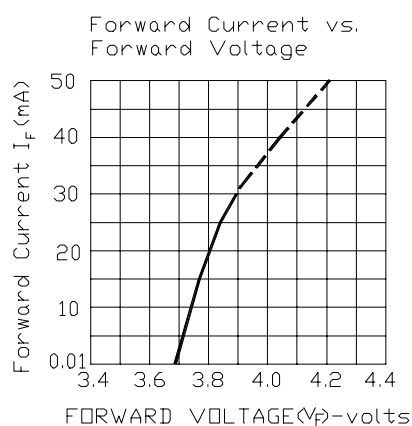
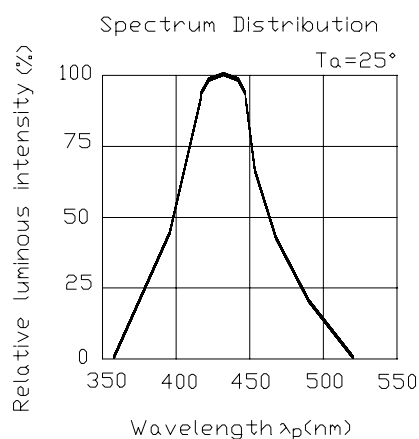


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Typical Electro-Optical Characteristic Curves:

UB





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■ Reliability test items and conditions:

NO	Item	Test Conditions	Test Hours/Cycle	Sample Size	Ac/Re
1	Solder Heat	TEMP : 260°C ± 5 °C	5 SEC	76 PCS	0/1
2	Temperature Cycle	H : +85°C 30min ┆ 5 min L : -55°C 30min	50 CYCLE	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ┆ 10 sec L : -10°C 5min	50 CYCLE	76 PCS	0/1
4	High Temperature Storage	TEMP : 100°C	1000 HRS	76 PCS	0/1
5	Low Temperature Storage	TEMP : -55°C	1000 HRS	76 PCS	0/1
6	DC Operating Life	IF = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1

[illegible]