



Technical Data Sheet 10 Bar Graph Displays

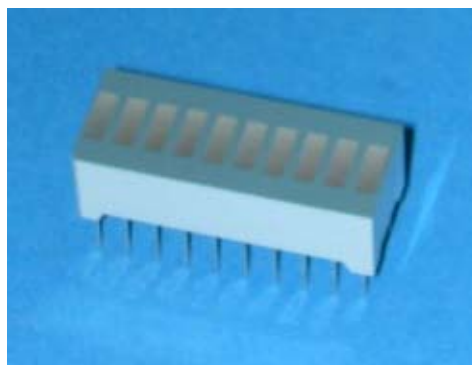
ELB-1001EWA

Features :

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

Descriptions :

- The ELB-1001 series are ten-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.



Applications :

- Audio equipment
- Instrument panels
- Digital read out display

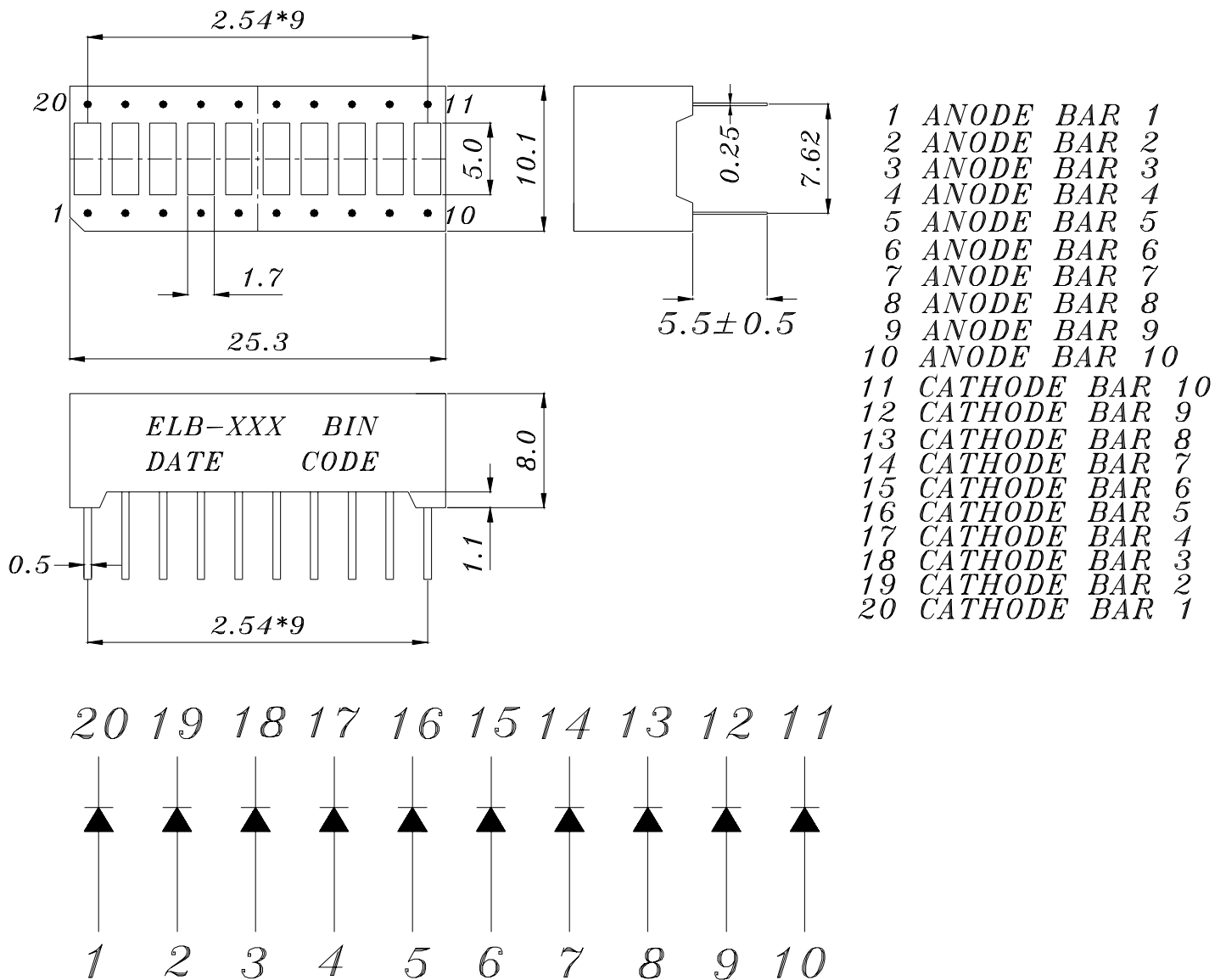
PART NO.	Chip	
	Material	Emitted Color
ELB-1001EWA	GaAsP/GaP	Orange

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10 Bar Graph Displays

ELB-1001EWA

Package Dimensions



Notes: 1.All dimensions are in millimeters, 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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10 Bar Graph Displays**ELB-1001EWA**

■ Absolute maximum ratings at Ta = 25°C :

Parameter	Symbol	Rating	Unit
Reverse Voltage	V _R	5	V
Forward Current	I _F	30	mA
Operating Temperature	T _{opr}	-40 to +85	°C
Storage Temperature	T _{stg}	-40 to +100	°C
Soldering Temperature	T _{sol}	260 ± 5	°C
Power Dissipation	P _d	100	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	I _{F(Peak)}	160	mA

■ Electronic optical characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	I _v	1.05	2.3	----	mcd	I _F =10mA
Peak Wavelength		λ _p	----	635	----	nm	I _F =20mA
Dominant Wavelength		λ _d	----	625	----	nm	I _F =20mA
Spectrum Radiation Bandwidth		Δλ	----	45	----	nm	I _F =20mA
Forward Voltage		V _F	1.7	2.0	2.4	V	I _F =20mA
Reverse Current		I _R	----	----	10	μA	V _R =5V

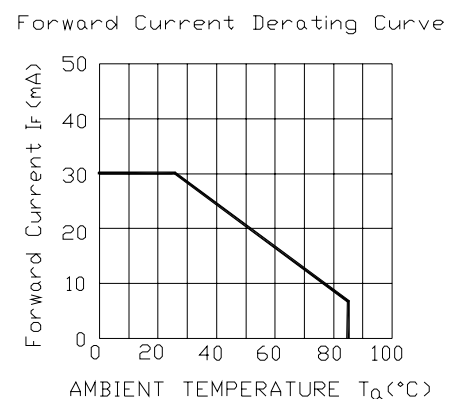
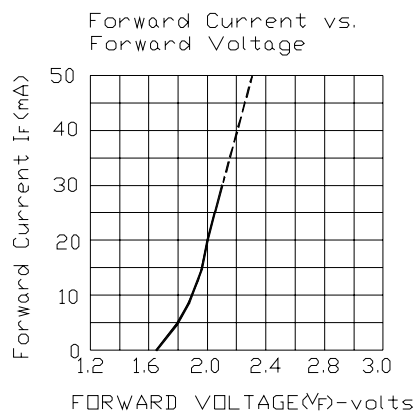
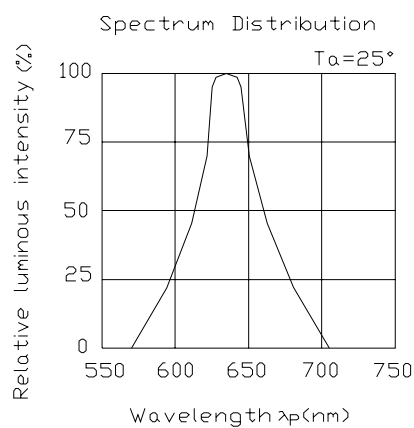


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■ Typical Electro-Optical Characteristic Curves:

CHIP Material:GaAsP/GaP
Emitted Color:Hi-Eff Red/Orange



**Technical Data Sheet**
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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