



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDDB-130-004 REV: 1

11.6*4.6mm Light Bars

PART NO. : ELB-1306ID 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-1306 series is 11.6*4.6mm
light bar designed for a variety of applications
where a large source of light is required,
such as panel indicators, backlight legends
and light arrays, etc.
- These device are available with red
offering a wide possibility in design.

PART NO.	Chip	
	Material	Emitted Color
ELB-1306ID	GaAsP/GaP	Hi-Eff Red

OFFICE : NO. 25, Lane 76, Sec.3, Chung Yang Rd., Tucheng 236, Taipei, Taiwan, R.O.C.

TEL : 886-2-2267-2000, 2267-9936

FAX : 886-2-2267-6244, 22676189, 22676306

<http://www.everlight.com>

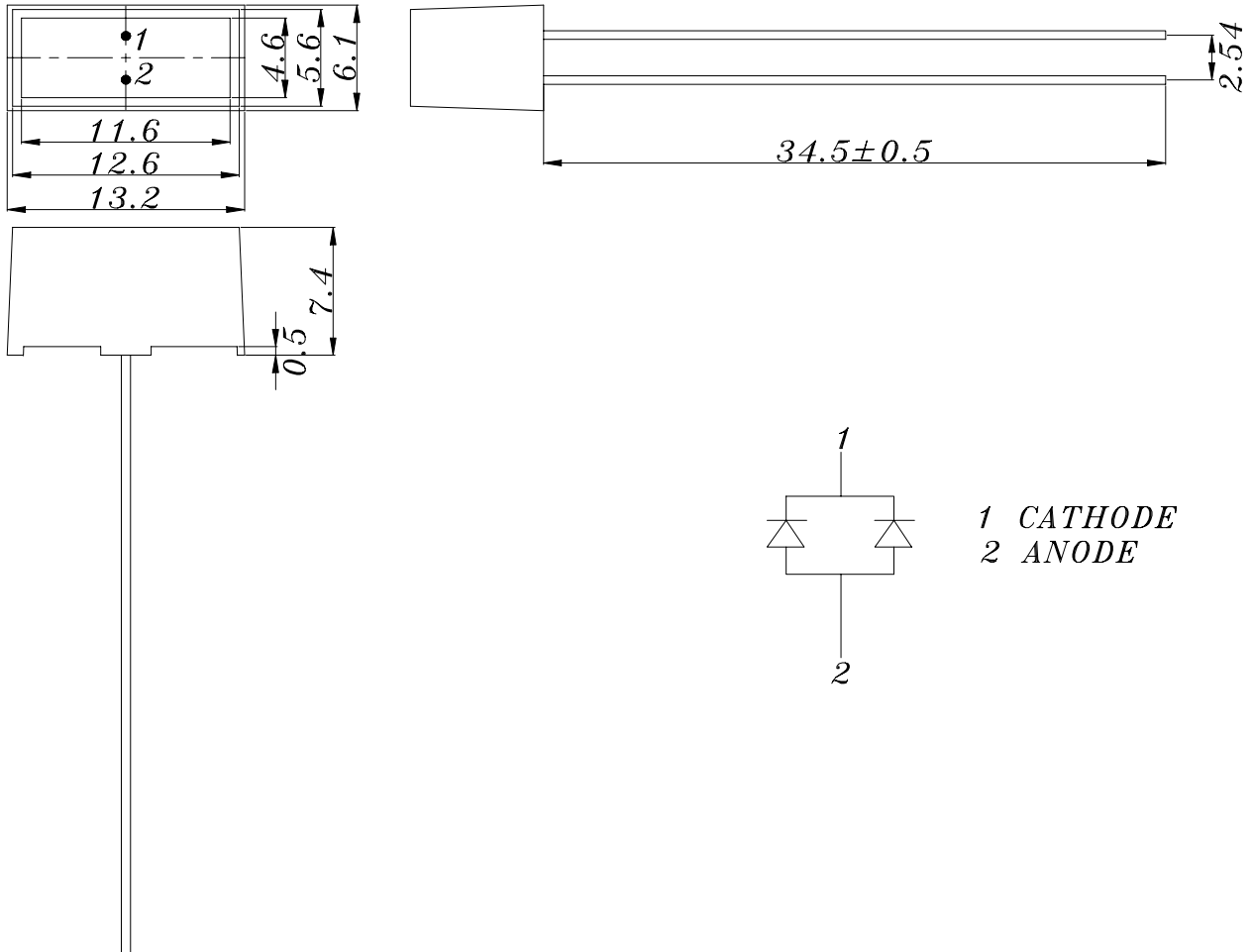
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11.6*4.6mm Light Bars

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■ 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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■ 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
Power Dissipation	Pd	100	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	IF(Peak)	160	mA

■ Electronic Optical Characteristics :

Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	2.8	3.2	----	mcd	IF=10mA
Peak Wavelength		λ p	----	635	----	nm	IF=20mA
Dominant Wavelength		λ d	----	625	----	nm	IF=20mA
Spectrum Radiation Bandwidth		△ λ	----	45	----	nm	IF=20mA
Forward Voltage		VF	1.7	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	10	μ A	VR=5V



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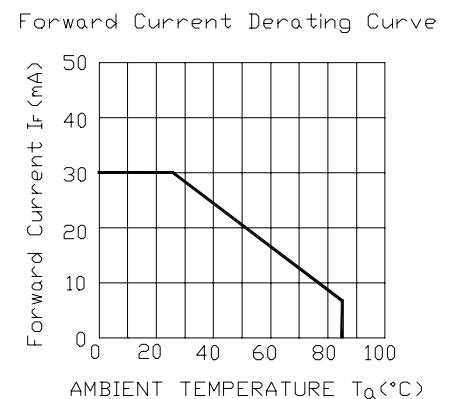
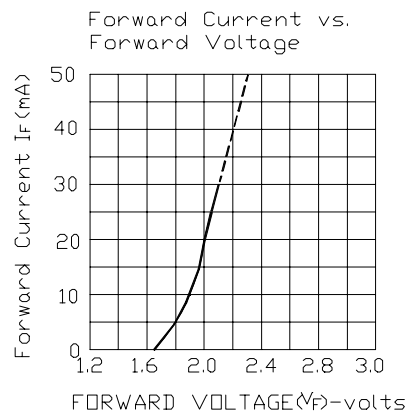
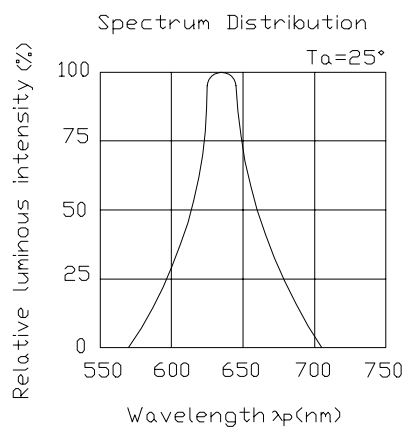
ECN :

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Typical Electro-Optical Characteristic Curves:

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





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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