



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DDB-101-035 REV: 1.0

12.8*6.3mm Light Bars

MODEL NO : ELB-1010SDRD/S530-A2 ECN : _____ Page: 1/5

■ Features :

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

■ Applications:

- Audio equipment
- Instrument panels
- Digital read out display

■ Description :

- The ELB-1010 series is 12.8*6.3mm light bar display. design 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 device are available with green offering a wide possibility in design.

PART NO	CHIP		C.C. or C.A.
	Material	Emitted Color	
ELB-1010SDRD/S530-A2	AlGaInP	Super Deep-Red	****

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<http://www.everlight.com>



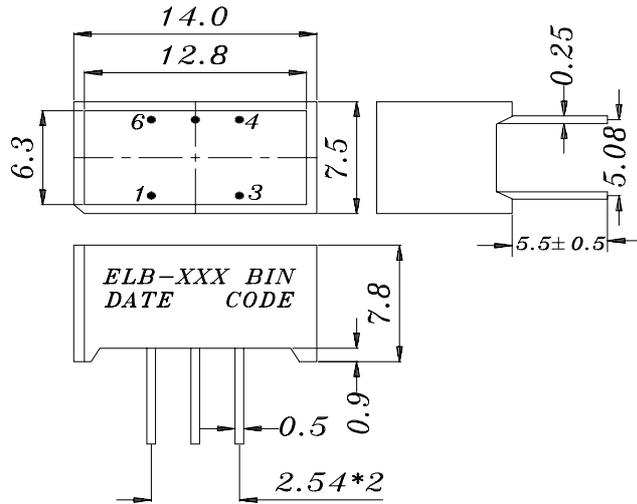
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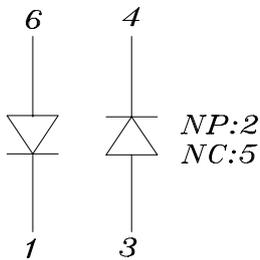
ECN : _____

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■ Package Dimension:



- 1 CATHODE A
- 2 NO PIN
- 3 ANODE B
- 4 CATHODE B
- 5 NO CONNECTION
- 6 ANODE A



■ NOTES:

- 1. All dimensions are 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	25	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	TsTg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Electrostatic Discharge	ESD	2000	V
Power Dissipation	Pd	60	mW
Peak Forward Current(Duty 1/10 @ 1KHZ)	If(Peak)	160	mA

■ Electronic optical characteristics :

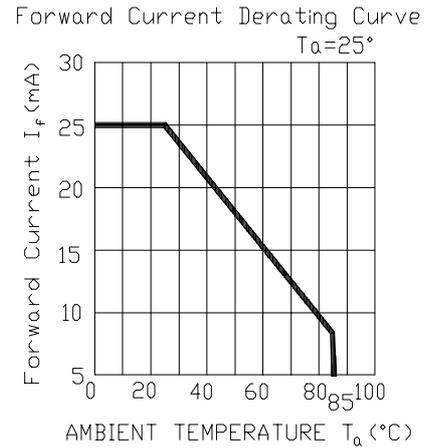
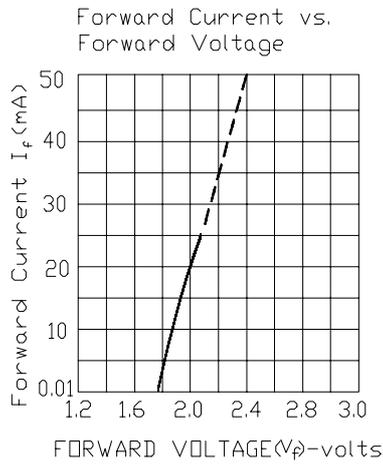
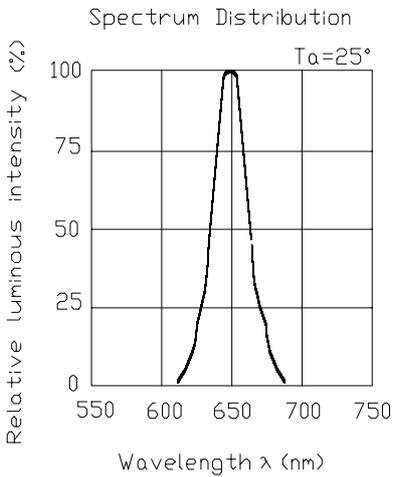
Parameter	Symbol	MIN.	TYP.	MAX.	Unit	Condition
Luminous Intensity	Iv	1.4	2.6	----	mcd	If=2mA
		7.8	17.4	----	mcd	If=10mA
Peak Wavelength	λ_p	----	650	----	nm	If=20mA
Dominant Wavelength	λ_d	----	639	----	nm	If=20mA
Spectrum Radiation Bandwidth	$\Delta \lambda$	----	20	----	nm	If=20mA
Forward Voltage	Vf	----	2.0	2.4	V	If=20mA
Reverse Current	Ir	----	----	10	μA	Vr=5V



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■ Typical Electro-Optical Characteristic Curves:

SDR





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■ Reliability test item and condition:

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