



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number :

CDDDB-100-027

REV: 1

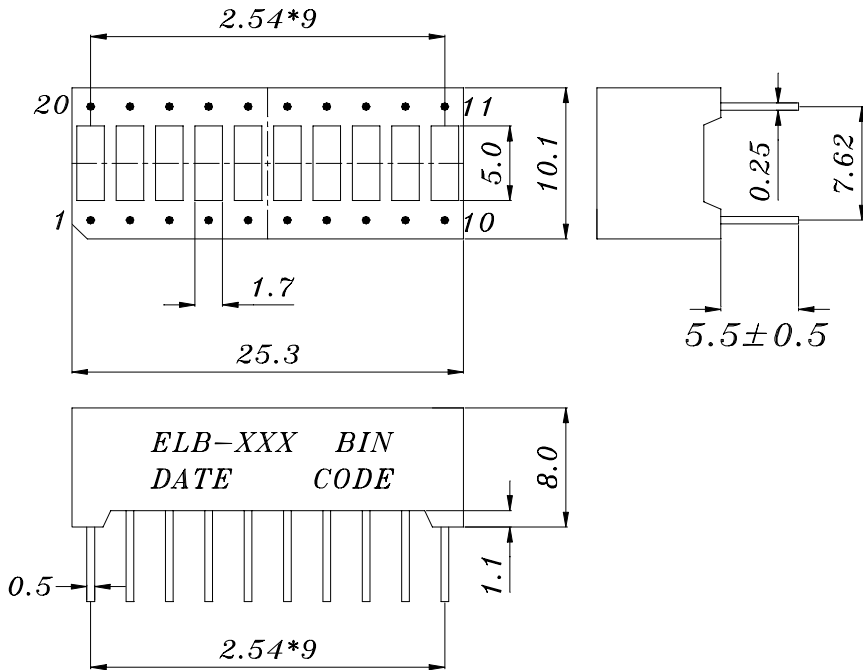
10 Bar Graph Displays

PART NO. : ELB-1001SYGWA/S530-E2

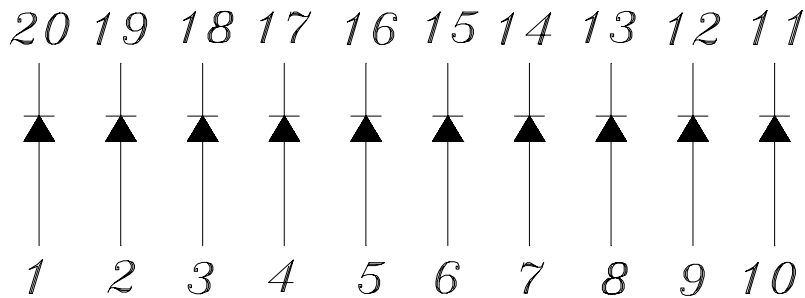
ECN : _____

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Package Dimensions:



- 1 ANODE BAR 1
- 2 ANODE BAR 2
- 3 ANODE BAR 3
- 4 ANODE BAR 4
- 5 ANODE BAR 5
- 6 ANODE BAR 6
- 7 ANODE BAR 7
- 8 ANODE BAR 8
- 9 ANODE BAR 9
- 10 ANODE BAR 10
- 11 CATHODE BAR 10
- 12 CATHODE BAR 9
- 13 CATHODE BAR 8
- 14 CATHODE BAR 7
- 15 CATHODE BAR 6
- 16 CATHODE BAR 5
- 17 CATHODE BAR 4
- 18 CATHODE BAR 3
- 19 CATHODE BAR 2
- 20 CATHODE BAR 1



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	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 :

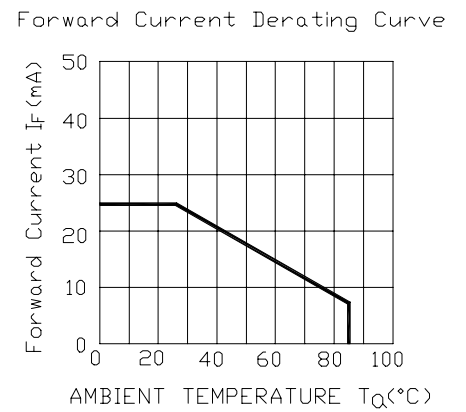
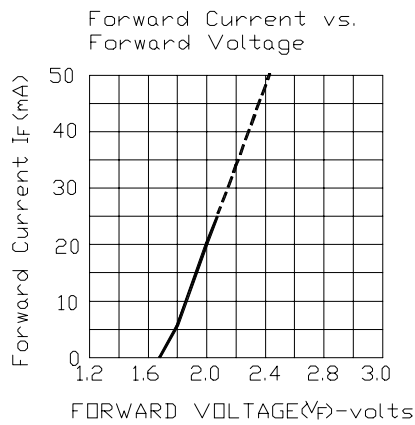
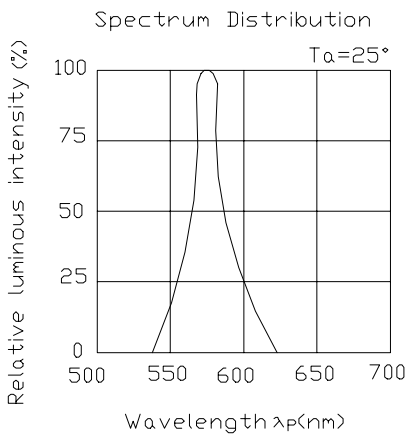
Parameter		Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Per segment	Iv	----	2.0	----	mcd	IF=2mA
			2.8	4.5	----		IF=10mA
Peak Wavelength		λp	----	575	----	nm	IF=20mA
Dominant Wavelength		λd	----	573	----	nm	IF=20mA
Spectrum Radiation	Bandwidth	$\Delta \lambda$	----	20	----	nm	IF=20mA
Forward Voltage		VF	----	2.0	2.4	V	IF=20mA
Reverse Current		IR	----	----	100	μA	VR=5V



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Typical Electro-Optical Characteristic Curves:

CHIP Material:AlGaInP
Emitted Color:Super Yellow Green





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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