

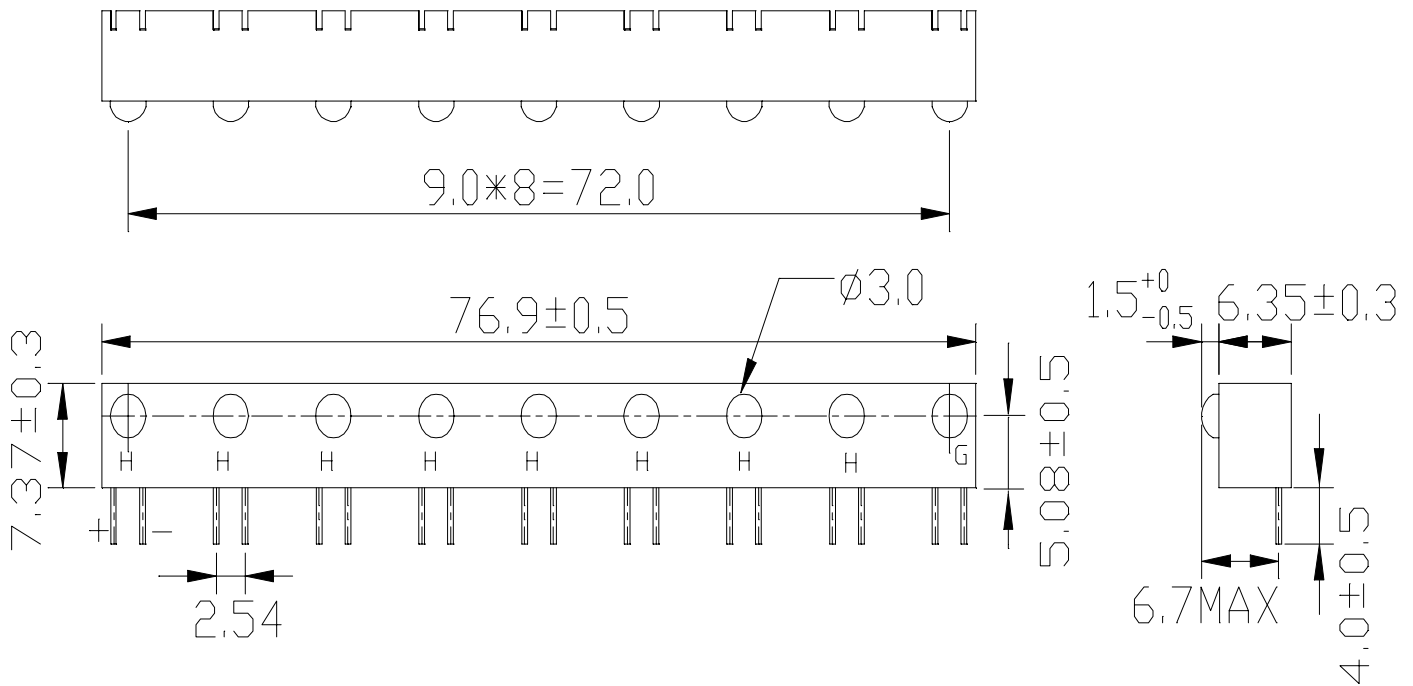


# EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : DAE-181-431 REV: 1.0

PART NO : A1814-10B/8H1G/R ECN : \_\_\_\_\_ Page: 1/7

## ■ Package Dimensions:



## ■ Notes:

- 1.All dimensions are in millimeters, tolerance is 0.25mm except being specified
- 2.Lead spacing is measured where the lead emerges from the package

LED PART NO	Chip		Lens Color
	Material	Emitted Color	
264-10GD	GaP	Green	Green Diffused
264-10HD	GaP	Bright Red	Red Diffused

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■ Descriptions:

- 1.ARRAY=Plastic Holder+Combination of Lamps
- 2.The array will easily mount the applicable lamps on any panel

■ Features:

- 1.Low power consumption
- 2.High efficiency and low cost
- 3.Good control and free combinations on the colors of LED lamps
- 5.Good lock and easy to assembly
- 6.Stackable and easy to assembly
- 7.Stackable vertically and easy to assembly
- 8.Versatile mounting on PCB or panel
- 9.Stackable horizontally and easy to assembly

■ Applications:

- 1.Used as indicators of indicating the degrees, functions, positions etc, in electronic instruments.

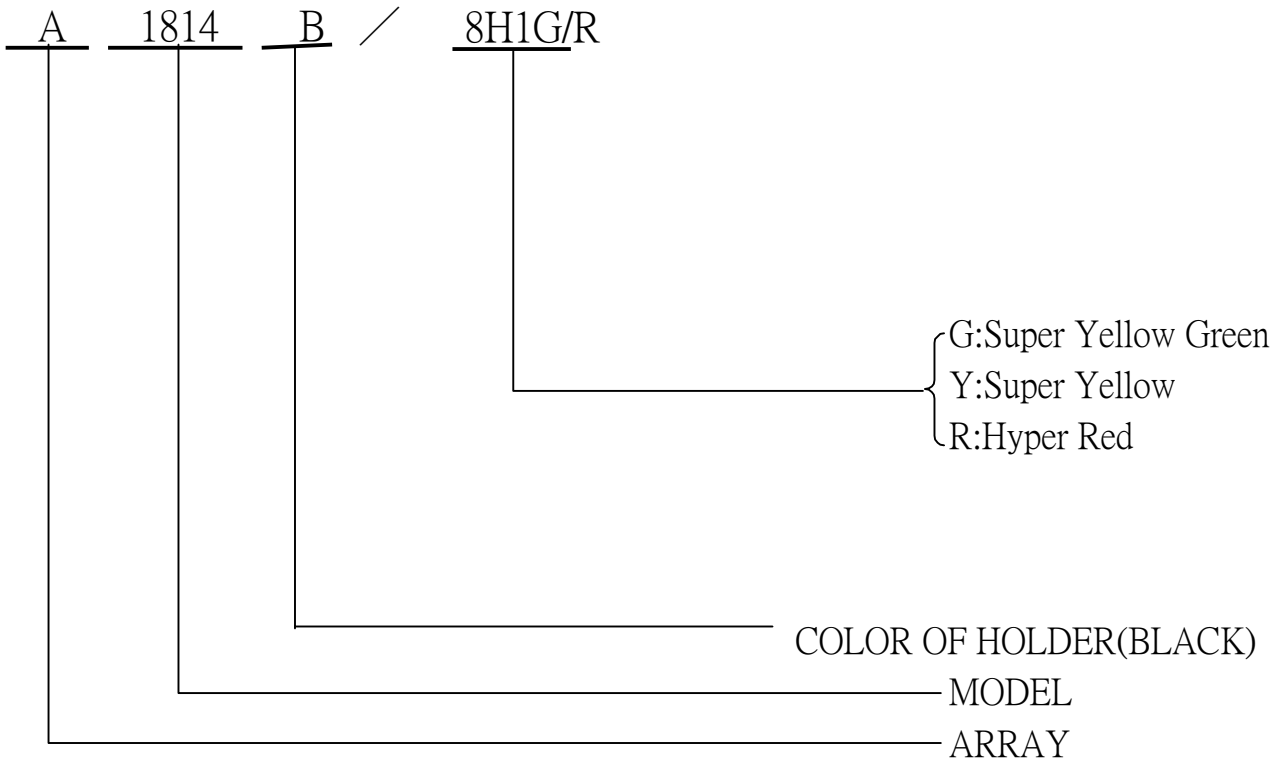


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## ■ LED LAMP ARRAYS SELECTION GUIDE:





**Absolute Maximum Ratings at Ta = 25°C**

H

Parameter	Symbol	Rating	Unit
Forward Current	IF	15	mA
Operating Temperature	Topr	-40 to +85	°C
Storage Temperature	Tstg	-40 to +100	°C
Soldering Temperature	Tsol	260 ± 5	°C
Power Dissipation	Pd	45	mW
Peak Forward Current(Duty 1/10 @ 1KHz)	IF(Peak)	50	mA
Reverse Voltage	VR	5	V

**Electronic Optical Characteristics :**

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.50	1.60	/	mcd	IF= 10 mA
Viewing Angle	2θ 1/2	/	60	/	deg	IF= 10 mA
Peak Wavelength	λ p	/	697	/	nm	IF= 10 mA
Dominant Wavelength	λ d	/	650	/	nm	IF= 10 mA
Spectrum Radiation Bandwidth	Δ λ	/	90	/	nm	IF= 10 mA
Forward Voltage	VF	1.5	2.0	2.4	V	IF= 10 mA
Reverse Current	IR	/	/	10	μ A	VR= 5 V



■ Absolute Maximum Ratings at Ta = 25°C

G

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

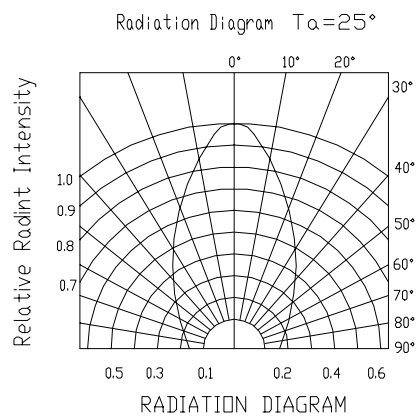
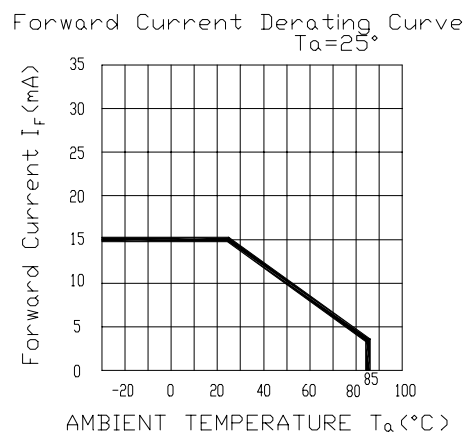
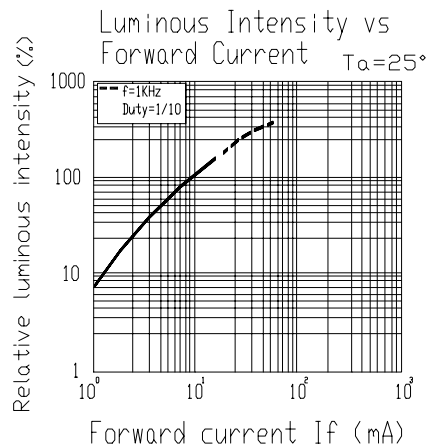
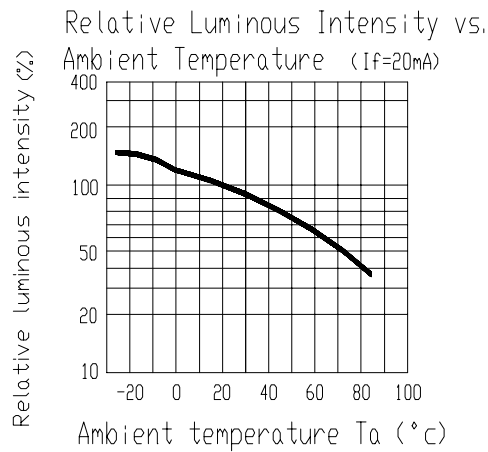
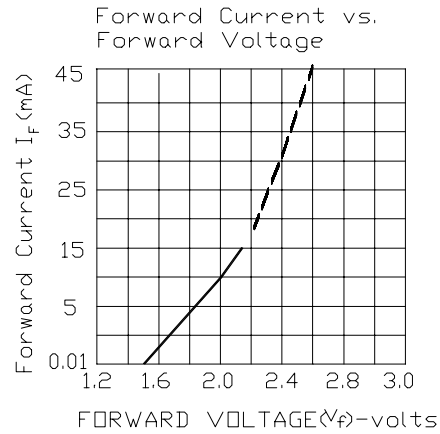
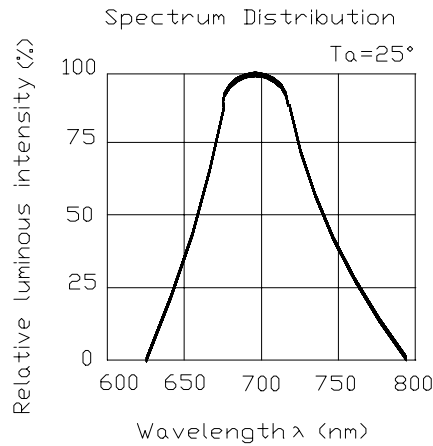
■ Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	I <sub>v</sub>	2.5	10	/	mcd	I <sub>F</sub> = 10 mA
Viewing Angle	2θ 1/2	/	60	/	deg	I <sub>F</sub> = 20 mA
Peak Wavelength	λ <sub>p</sub>	/	565	/	nm	I <sub>F</sub> = 20 mA
Dominant Wavelength	λ <sub>d</sub>	/	570	/	nm	I <sub>F</sub> = 20 mA
Spectrum Radiation Bandwidth	Δλ	/	30	/	nm	I <sub>F</sub> = 20 mA
Forward Voltage	V <sub>F</sub>	1.7	2.1	2.4	V	I <sub>F</sub> = 20 mA
Reverse Current	I <sub>R</sub>	/	/	10	μA	V <sub>R</sub> = 5 V



■ Typical Electro-Optical Characteristic Curves

H





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## Typical Electro-Optical Characteristic Curves

G

