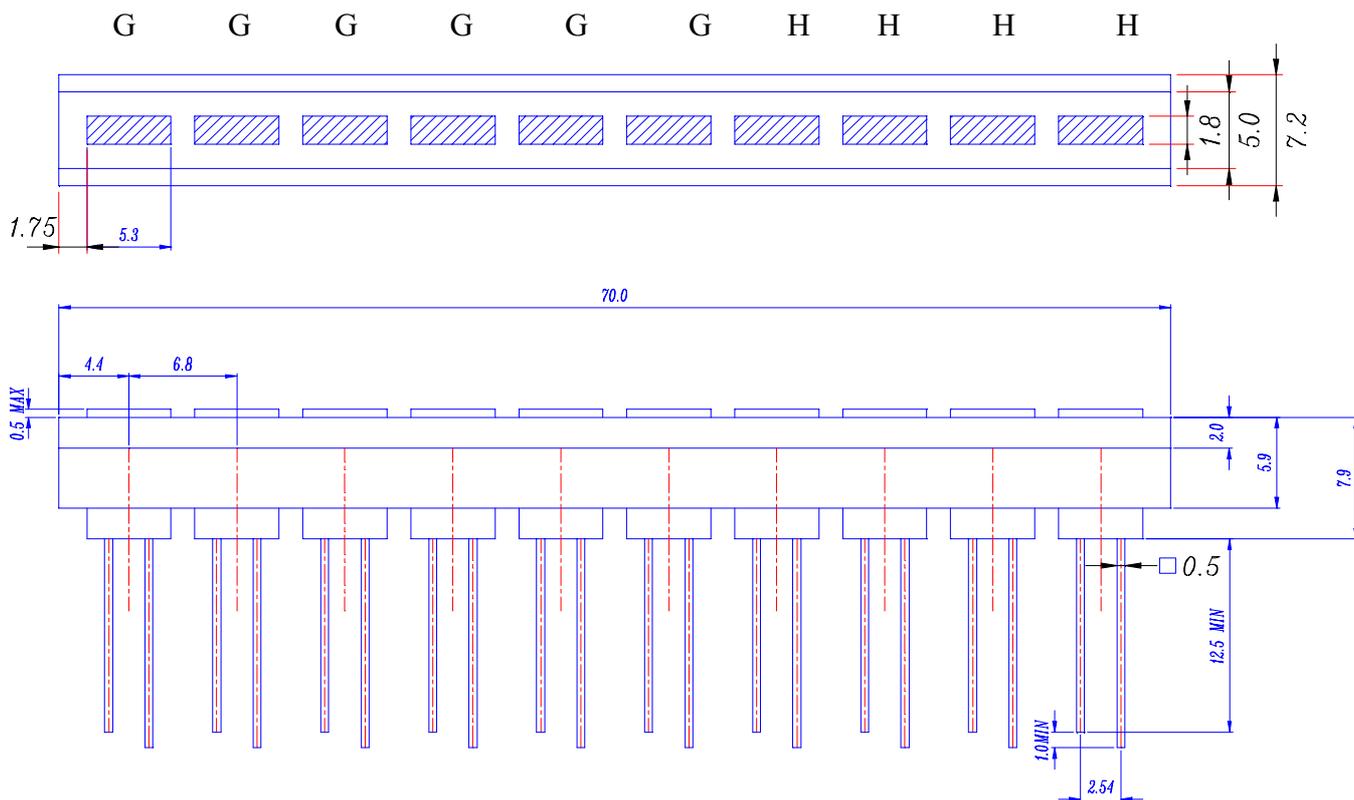




■ Package Dimensions:



■ Notes:

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

LED PART NO.	Chip		Lens Color
	Material	Emitted Color	
552GD	GaP	Green	Green Diffused
552HD	GaP	Bright Red	Red Diffused

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>

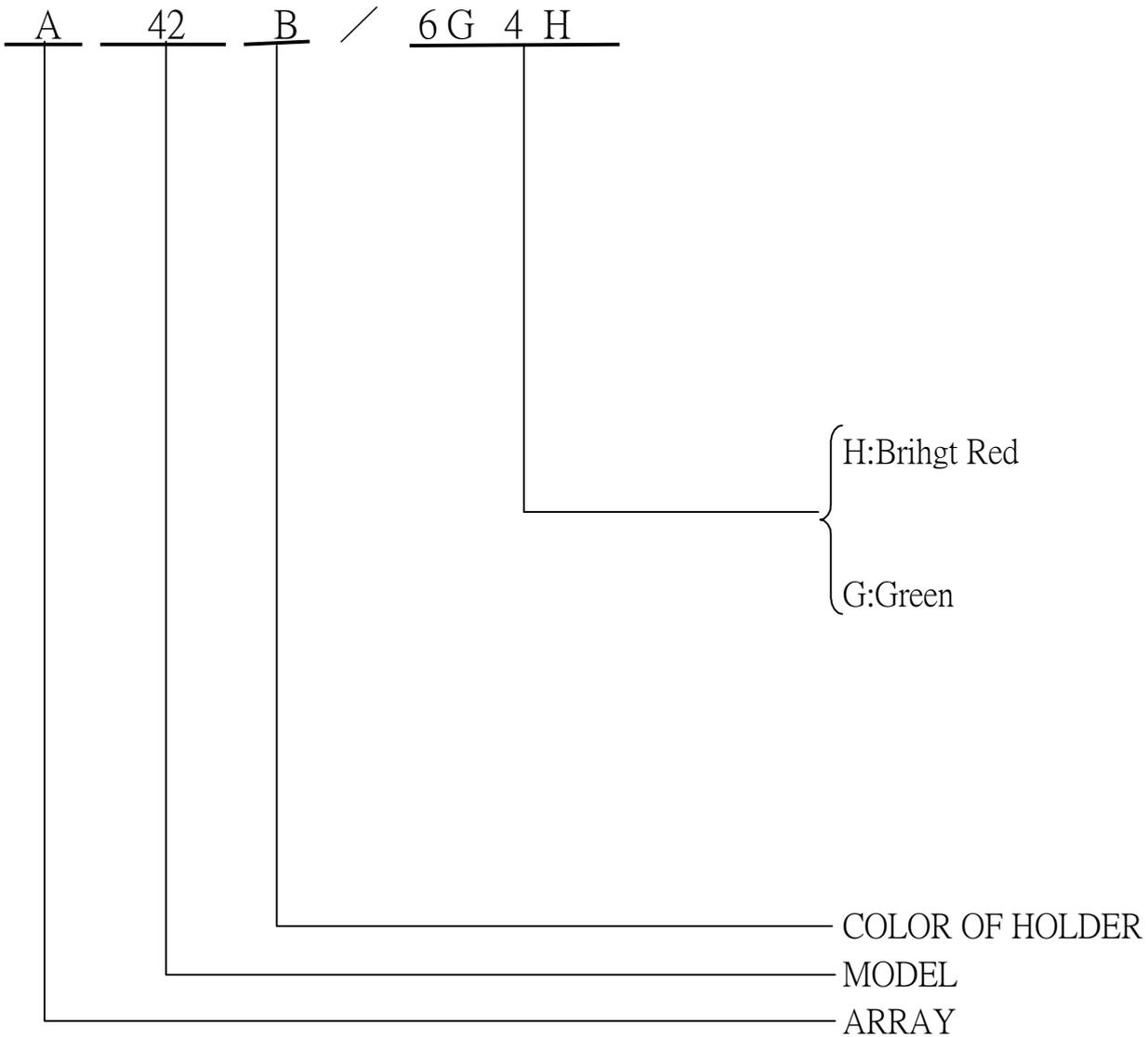


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■ LED LAMP ARRAYS selection guide:





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Absolute Maximum Ratings at Ta = 25°C

(G)

Parameter	Symbol	Rating	Unit
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
Reverse Voltage	VR	5	V

Electronic Optical Characteristics :

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity	Iv	0.4	0.5	/	mcd	IF= 10 mA
Viewing Angle	2θ 1/2	/	180	/	deg	IF= 20 mA
Peak Wavelength	λ p	/	565	/	nm	IF= 20 mA
Dominant Wavelength	λ d	/	570	/	nm	IF= 20 mA
Spectrum Radiation Bandwidth	Δλ	/	30	/	nm	IF= 20 mA
Forward Voltage	VF	1.7	2.1	2.4	V	IF= 20 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDAE-004-009 REV.: 1

PART NO. : A42B/6G4H ECN : Page: 5 / 8

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	0.3	0.5	/	mcd	IF= 10 mA
Viewing Angle	2θ 1/2	/	180	/	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	△λ	/	90	/	nm	IF= 10 mA
Forward Voltage	VF	1.7	2.0	2.4	V	IF= 10 mA
Reverse Current	IR	/	/	10	μA	VR= 5 V



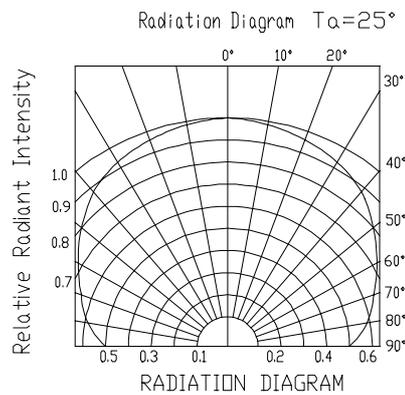
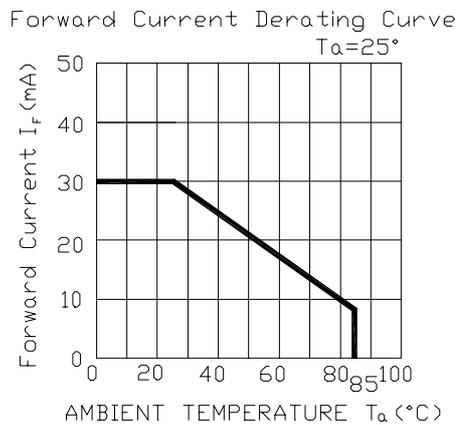
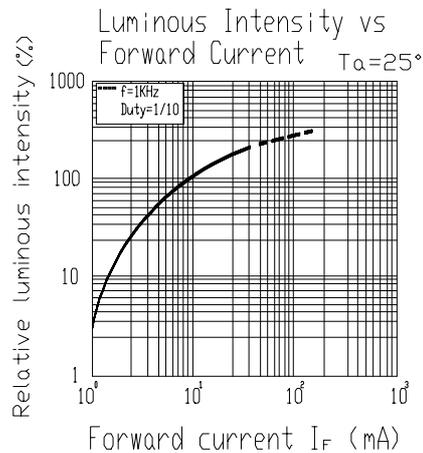
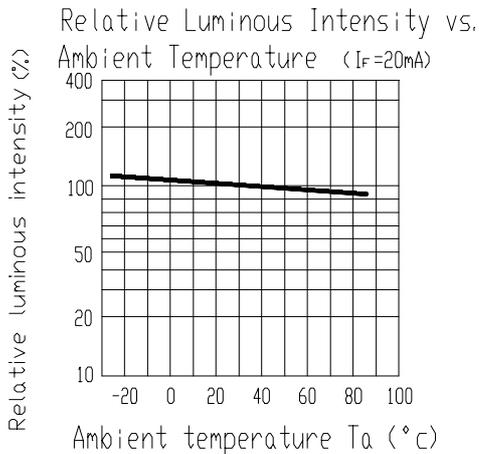
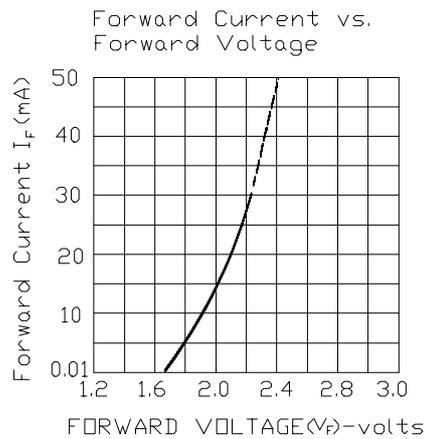
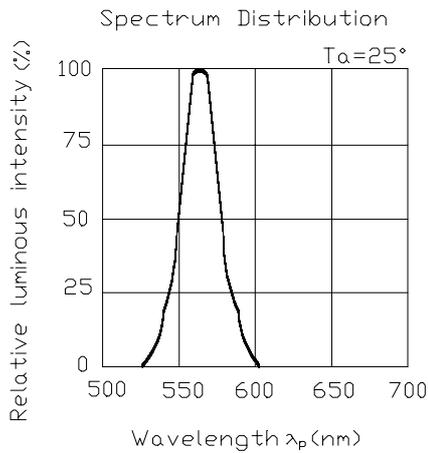
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Device Number : CDAE-004-009 REV.: 1

PART NO. : A42B/6G4H ECN : Page: 6 / 8

■ Typical Electro-Optical Characteristic Curves:

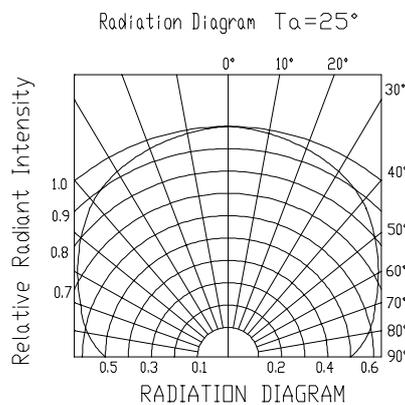
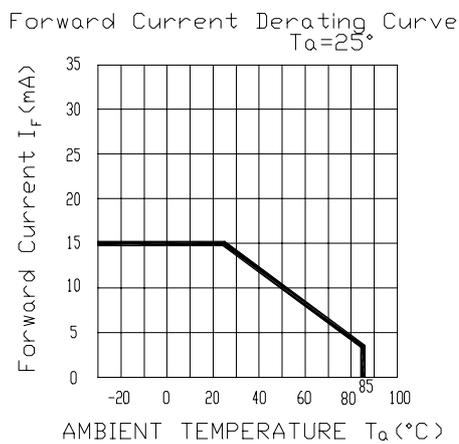
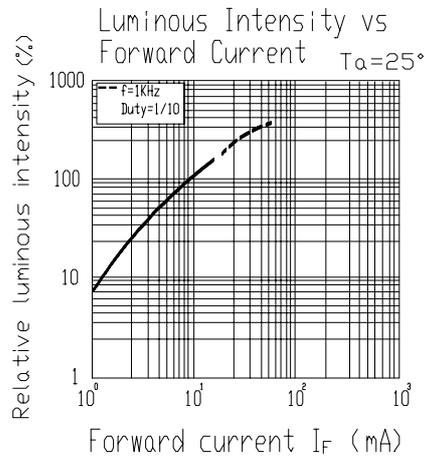
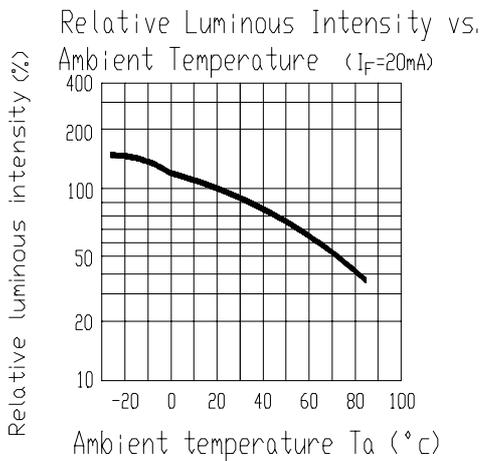
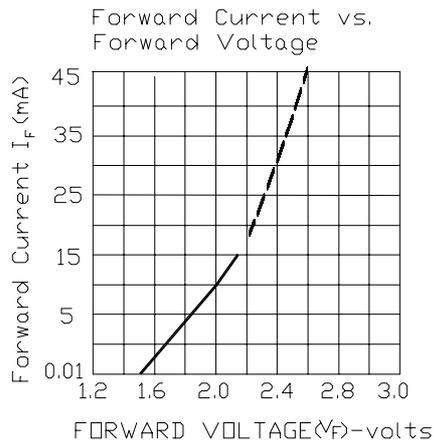
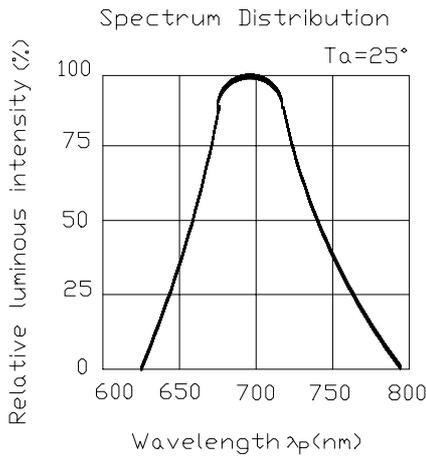
(G)





■ Typical Electro-Optical Characteristic Curves:

(H)





EVERLIGHT ELECTRONICS CO.,LTD.

Device Number : CDAE-004-009 REV.: 1

PART NO. : A42B/6G4H ECN : Page: 8 / 8

■ Reliability test items 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 CYCLES	76 PCS	0/1
3	Thermal Shock	H : +100°C 5min ∫ 10 sec L : -10°C 5min	50 CYCLES	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	I _F = 10 mA	1000 HRS	76 PCS	0/1
7	High Temperature / High Humidity	85°C/85% RH	1000 HRS	76 PCS	0/1