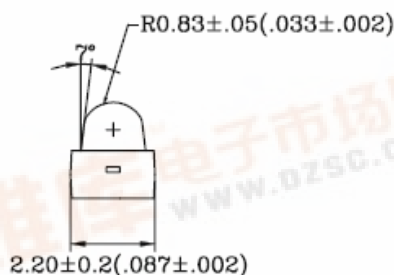
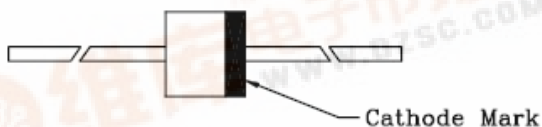
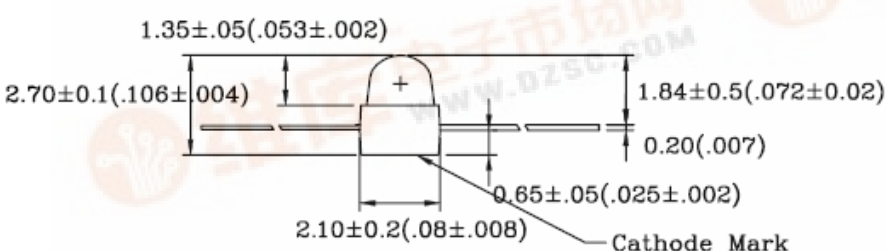
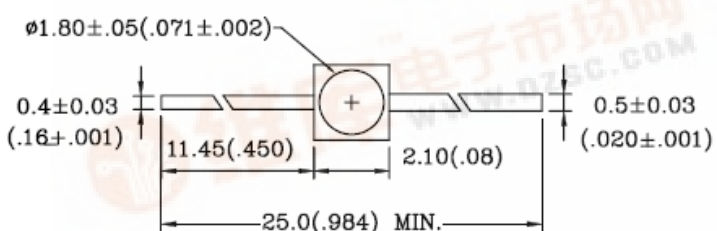
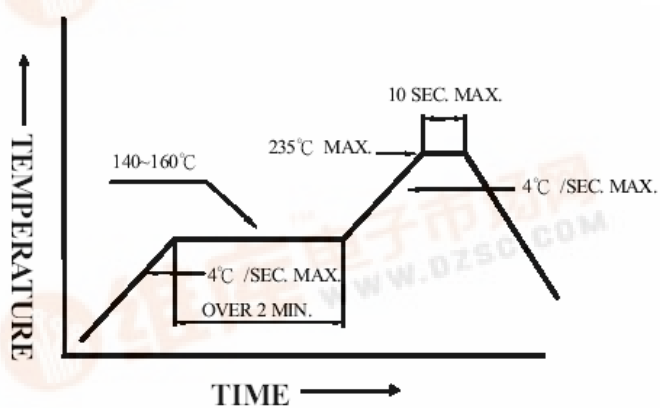


A-BRIGHT**A-BRIGHT INDUSTRIAL CO., LTD.****AXIAL LED LAMPS****Super Bluish Green Axial LED Lamps****Part Number: AL-XG4361****Package outlines & Re-flow Profile****Reflow Temp/Time****Soldering iron**

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter ($+10^{\circ}\text{C} \rightarrow -1\text{sec}$). Power dissipation of iron should be smaller than 15W , and temperatures should be controllable. Surface temperature of the device should be under 230°C .

ITEM	MATERIALS
Resin (mold)	Epoxy
Lens color	Water Clear
Printed circuit board	BT
Dice	InGaN
Emitted color	Bluish Green

NOTES:

- All dimensions are in millimeters (inches);
- Tolerances are $\pm 0.1\text{mm}$ (0.004inch) unless otherwise noted.



A-BRIGHT INDUSTRIAL CO., LTD.

AXIAL LED LAMPS

Part Number: AL-XG4361

ELECTRO-OPTICAL CHARACTERISTICS

(T_A=25°C)

Parameter	Test Condition	Symbol	Value	Unit
Viewing angle at 50% I _V	I _F =10mA	2 θ 1/2	35	Deg
Forward voltage (Typ.)	I _F =20mA	V _F	3.50	V
(Max.)			4.00	
Luminous intensity (Min.)	I _F =20mA	I _V	94.0	mcd
(Typ.)			250.0	
Wavelength	I _F =20mA	λ p	505	nm
		λ d	505±5	
Spectral Line Half-Width	I _F =20mA	△λ	35	nm
Peak pulsing current (1/10 duty f=1kHz)		I _{FP}	100	mA

Absolute maximum ratings

(T_A=25°C)

Parameter	Symbol	Value	Unit
Forward current	I _F	30	mA
Reverse voltage	V _R	5	V
Reverse current	I _R	100	μA
Power Dissipation	P _D	120	mW
Operating temperature range	Top	-25 ~+80	°C
Storage temperature range	Tstg	-30 ~+85	°C
Lead soldering temperature	260°C For 5 Seconds		



A-BRIGHT INDUSTRIAL CO., LTD.

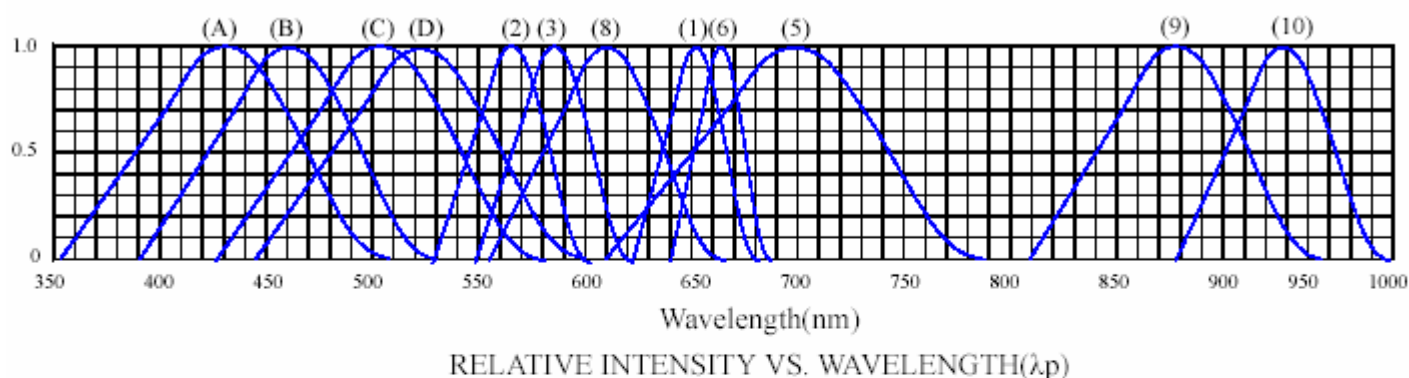
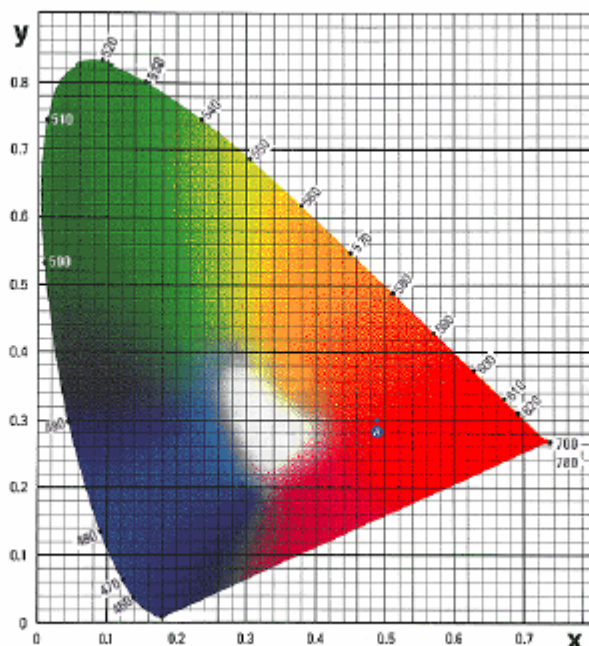
AXIAL LED LAMPS

Part Number: AL-XG4361

Test items and results of reliability

Classification	Test Item	Reference Standard	Test Conditions	Result
Endurance Test	Operation Life	MIL-STD-750:1026 MIL-STD-883:1005 JIS C 7021 :B-1	Connect with a power If=20mA Ta=Under room temperature Test time=1,000hrs	0/20
	High Temperature High Humidity Storage	MIL-STD-202:103B JIS C 7021 :B-11	Ta=+65°C±5°C RH=90%-95% Test time=240hrs	0/20
	High Temperature Storage	MIL-STD-883:1008 JIS C 7021 :B-10	High Ta=+85°C±5°C Test time=1,000hrs	0/20
	Low Temperature Storage	JIS-C-7021 :B-12	Low Ta=-35°C±5°C Test time=1,000hrs	0/20
Environmental Test	Temperature Cycling	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1010 JIS C 7021 :A-4	-35°C ~ +25°C ~ +85°C ~ +25°C 60min 20min 60min 20min Test Time=5cycle	0/20
	Thermal Shock	MIL-STD-202:107D MIL-STD-750:1051 MIL-STD-883:1011	-35°C±5°C ~ +85°C±5°C 20min 20min Test Time=10cycle	0/20
	Solder Resistance	MIL-STD-202:201A MIL-STD-750:2031 JIS C 7021 :A-1	Preheating : 140°C -160°C ,within 2 minutes. Operation heating : 235°C (Max.), within 10seconds. (Max.)	0/20

* Refer to reliability test standard specification for in this line.

Typical Optical-Electrical Characteristic Curves◆ **TYPICAL ELECTRICAL-OPTICAL CHARACTERISTICS CURVES**

- (1) GaAsP/GaAs 655nm/Red
- (2) GaP 568nm/ Yellow Green
- (3) GaAsP/GaP 585nm/Yellow
- (4) GaAsP/GaP 635nm/Orange & Hi-Eff Red
- (5) GaP 700nm/Bright Red
- (6) GaAlAs/GaAs 660nm/Super Red
- (8) GaAsP/GaP 610nm/Super Red

- (9)- GaAlAs 880nm
- (10)-GaAs/GaAs&GaAlAs/GaAs 940nm
- (A)- GaN 430nm/Blue
- (B)- InGaN 470nm/Blue
- (C)- InGaN 502nm/Ultra Green
- (D)- InGaN 523nm/Ultra Green



A-BRIGHT INDUSTRIAL CO., LTD.

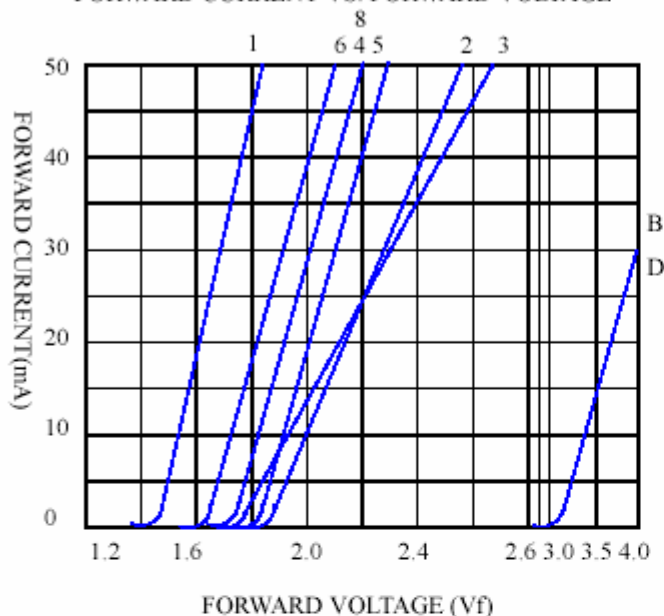
AXIAL LED LAMPS

Part Number: AL-XG4361

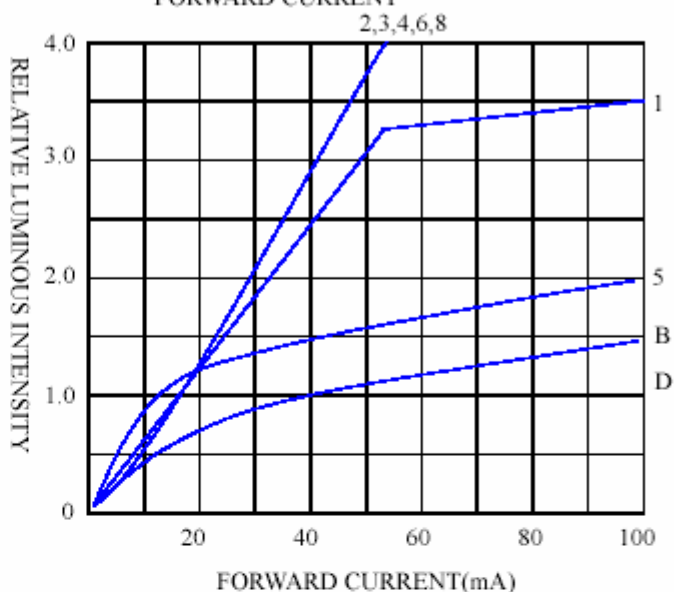
Typical Optical-Electrical Characteristic Curves

◆ CHARACTERISTICS DIAGRAMS

FORWARD CURRENT VS. FORWARD VOLTAGE



RELATIVE LUMINOUS INTENSITY VS. FORWARD CURRENT



FORWARD CURRENT VS. AMBIENT TEMPERATURE

