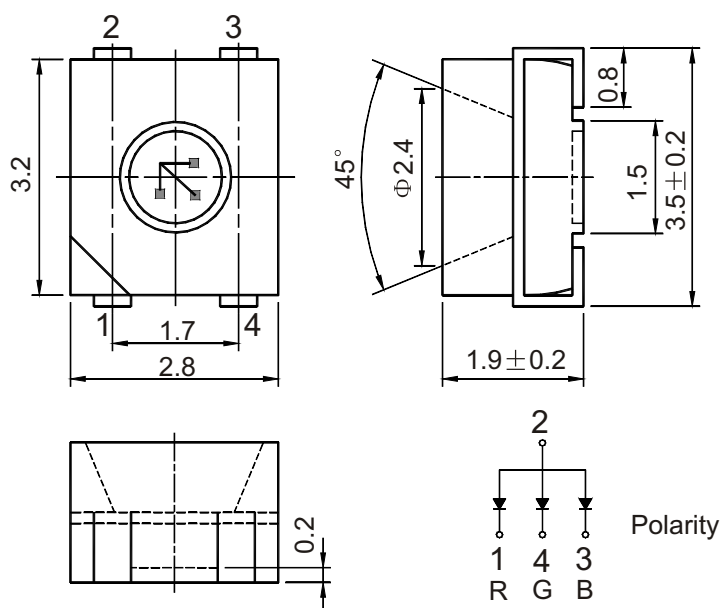




● Features:

1. Chip material: UE---AlGaInP/GaAS
PG---InGaN
UB---InGaN
2. Emitting color: Ultra Orange
Pure Green
Ultra Blue
3. Lens Appearance: Water Clear
4. Long life-solid state reliability
5. Compatible with automatic placement equipment
6. Compatible with reflow solder process
7. RoHS compliant

● Package dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ ($0.01''$) unless otherwise specified.
3. Specifications are subject to change without notice.

● Absolute maximum ratings ($T_a = 25^\circ\text{C}$)

Characteristic	Test Condition	Symbol	UE	PG	UB	Units
Pulse Forward Current	1/10 duty cycle 0.1ms Pulse width	I_{FP}	100	80	80	mA
DC Forward Current		I_F	30	25	25	mA
Reverse Current	$V_R = 5V$	I_R	10	10	10	μA
Power Dissipation		P_D	65	120	120	mW
Operating Temperature		T_{OPR}	-40 to +80			$^\circ\text{C}$
Storage Temperature		T_{STG}	-40 to +85			$^\circ\text{C}$
Lead Soldering Temperature	1.60mm from body maximum 3 seconds	T_{SOL}	260			$^\circ\text{C}$

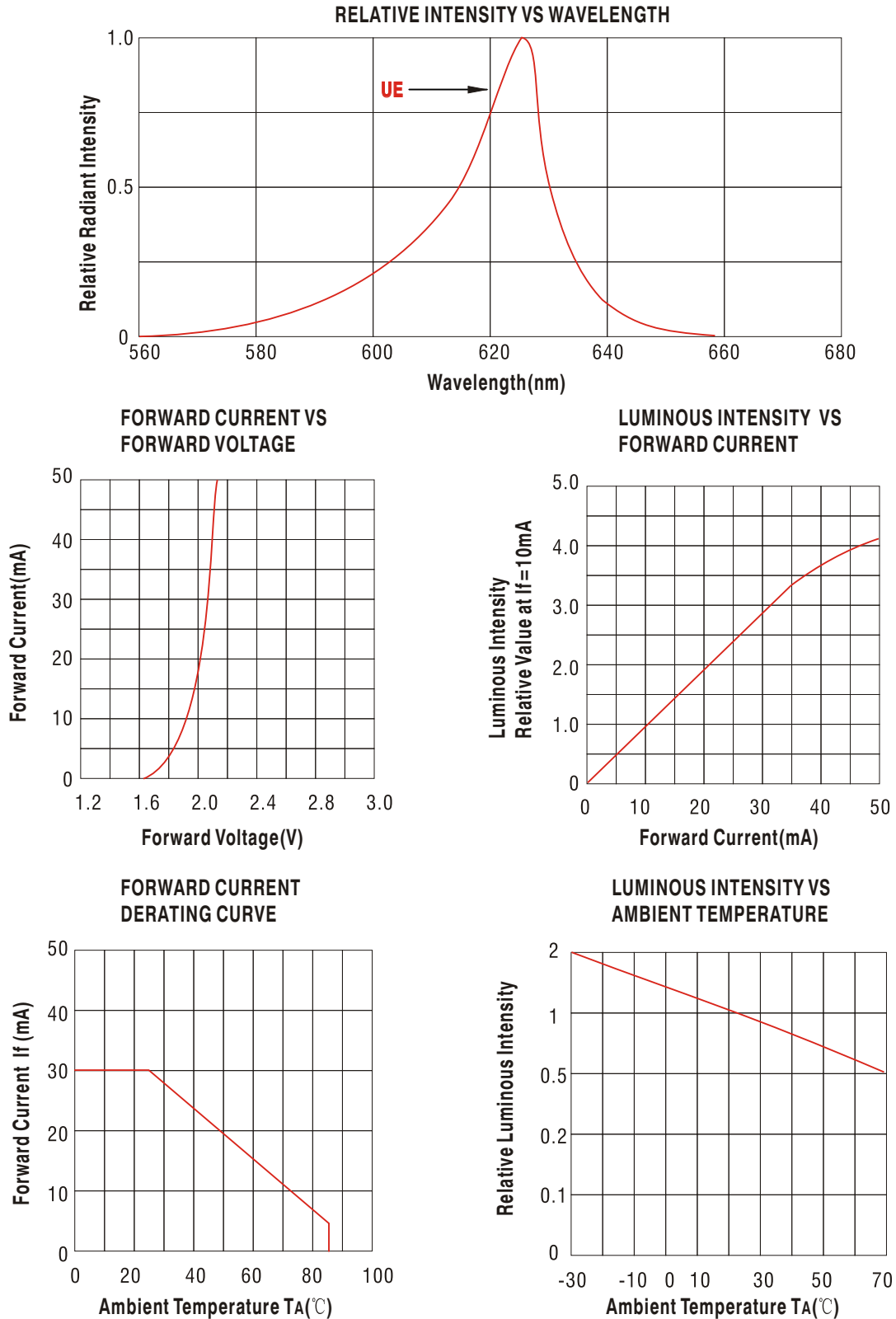


● Electrical And Optical Characteristics(Ta=25°C)

Parameter	Test Condition	Symbol	Colors	Typ.	Max.	Units
Forward Voltage	IF=20mA	V _F	UE	2.00	2.50	V
Reverse Current	V _R =5V	I _R		---	10	μA
Peak Wavelength	IF=20mA	λ _P		632	---	nm
Dominant Wavelength	IF=20mA	λ _D		624	---	nm
Spectral Line Half-width	IF=20mA	△λ		20	---	nm
Luminous Intensity	IF=20mA	I _V		250	---	mcd
Forward Voltage	IF=20mA	V _F	PG	3.10	3.50	V
Reverse Current	V _R =5V	I _R		---	10	μA
Peak Wavelength	IF=20mA	λ _P		---	---	nm
Dominant Wavelength	IF=20mA	λ _D		525	---	nm
Spectral Line Half-width	IF=20mA	△λ		35	---	nm
Luminous Intensity	IF=20mA	I _V		650	---	mcd
Forward Voltage	IF=20mA	V _F	UB	3.10	3.50	V
Reverse Current	V _R =5V	I _R		---	10	μA
Peak Wavelength	IF=20mA	λ _P		---	---	nm
Dominant Wavelength	IF=20mA	λ _D		470	---	nm
Spectral Line Half-width	IF=20mA	△λ		26	---	nm
Luminous Intensity	IF=20mA	I _V		220	---	mcd
Viewing Angle	IF=20mA	2θ ½	UEPG UB	120	---	deg.

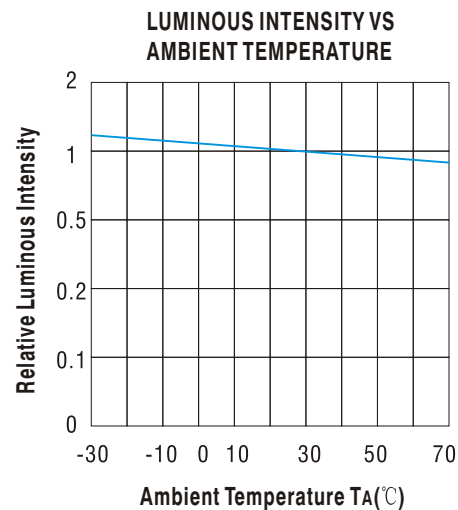
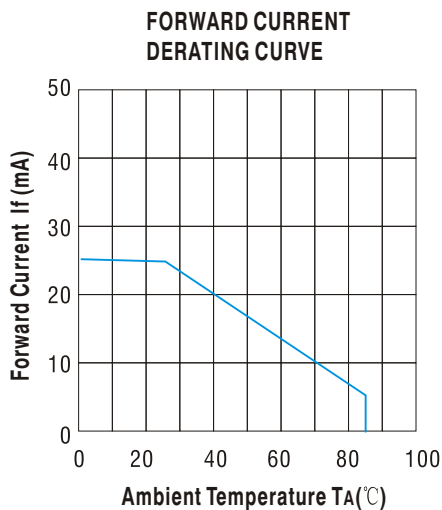
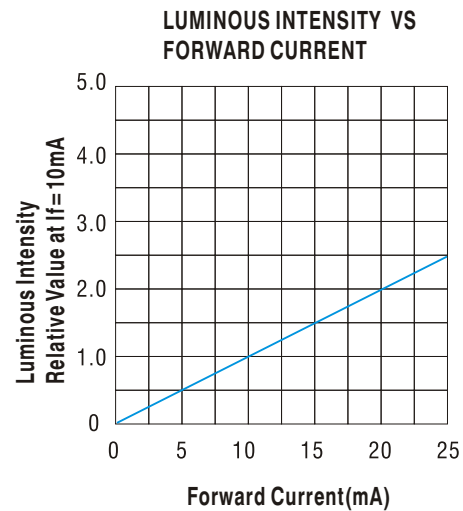
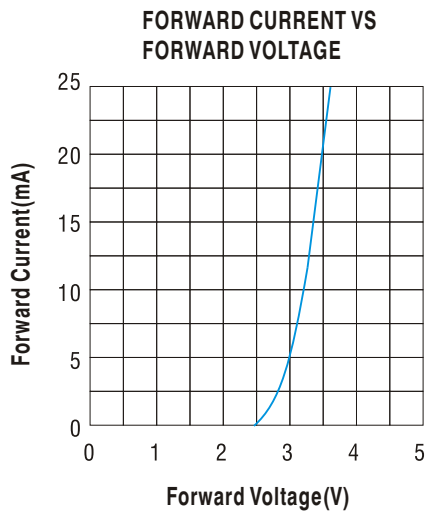
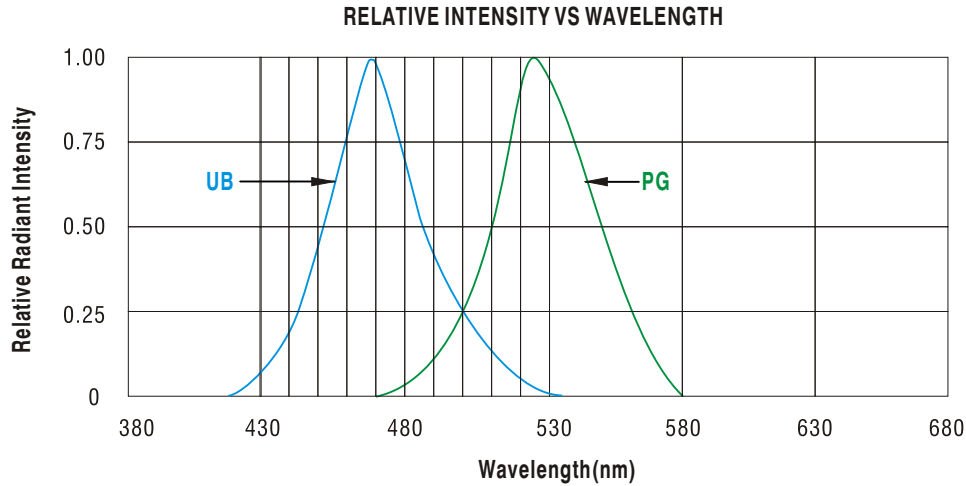


● Typical electro-optical characteristics curves



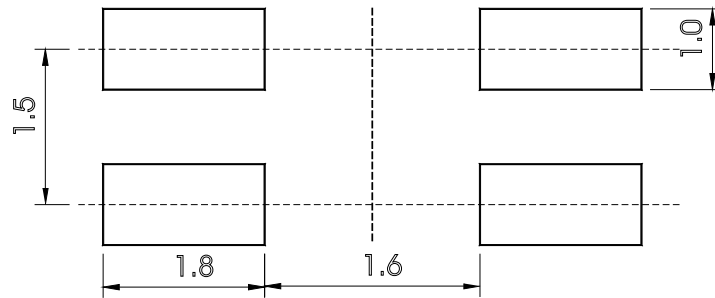


● Typical electro-optical characteristics curves





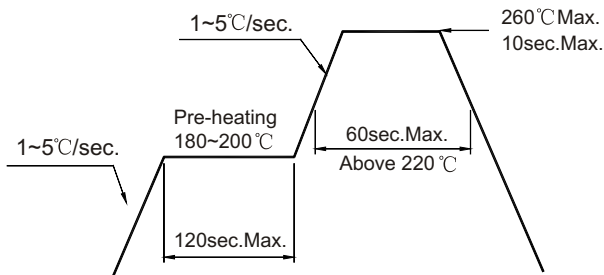
● Soldering Pad Dimensions:



● Soldering Conditions:

1.Reflow soldering profile

Lead-free solder



2.Soldering Iron

Power dissipation of iron should be smaller than 25W, and temperature should be controllable. The work must be finished within 3sec. under 300°C Only once.

Do not stress its resin while soldering.

After soldering, do not warp the circuit board.

● Package Tape Specifications:(2000pcs/Reel)

