

Excellent Integrated System Limited

Stocking Distributor

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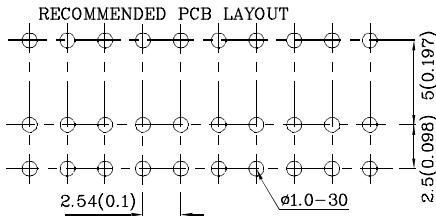
[SunLED](#)
[XGUGUYX10D](#)

For any questions, you can email us directly:

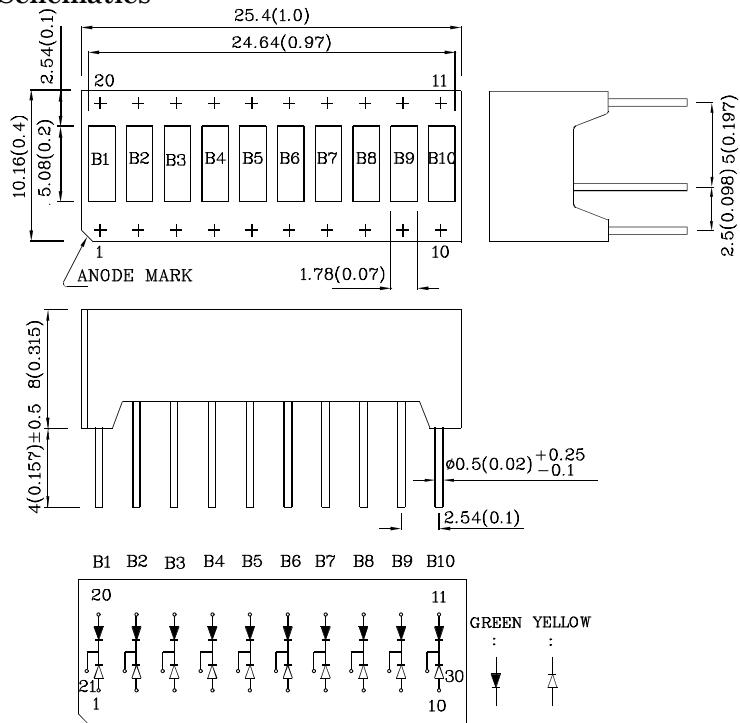
sales@integrated-circuit.com

Features

- Robust package
- Uniform light disbursement
- Ideal for backlighting logos or icons
- Excellent for flush mounting
- Standard configuration: Gray face w/ white segments
- RoHS compliant



Package Schematics



Notes:

1. All dimensions are in millimeters (inches), Tolerance is $\pm 0.25(0.01)$ " unless otherwise noted.
2. Specifications are subject to change without notice.

Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		UG (GaP)	UY (GaAsP/ GaP)	Unit
Reverse Voltage	V_R	5	5	V
Forward Current	I_F	25	30	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	140	140	mA
Power Dissipation	P_D	62.5	75	mW
Operating Temperature	T_A	$-40 \sim +85$		$^\circ\text{C}$
Storage Temperature	T_{stg}	$-40 \sim +85$		
Lead Solder Temperature [2mm Below Package Base]	260°C For 3~5 Seconds			

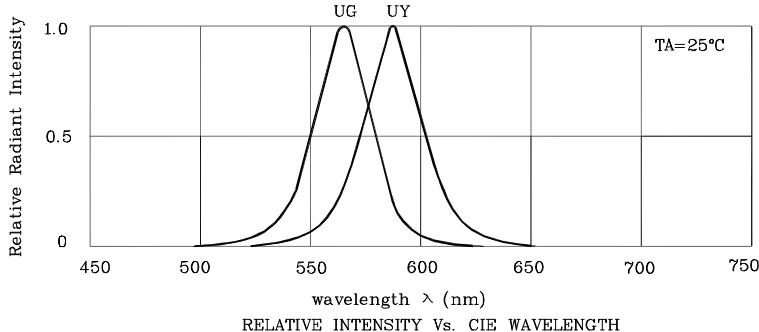
Operating Characteristics ($T_A=25^\circ\text{C}$)		UG (GaP)	UY (GaAsP/ GaP)	Unit
Forward Voltage (Typ.) ($I_F=10\text{mA}$)	V_F	2	1.95	V
Forward Voltage (Max.) ($I_F=10\text{mA}$)	V_F	2.5	2.5	V
Reverse Current (Max.) ($V_R=5\text{V}$)	I_R	10	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=10\text{mA}$)	λP	565*	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=10\text{mA}$)	λD	568*	588*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$)	$\Delta\lambda$	30	35	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	15	20	pF

Part Number	Emitting Color	Emitting Material	Luminous Intensity CIE127-2007* ($I_F=10\text{mA}$) ucd	Wavelength CIE127-2007* nm λP	Description
XGUGUYX10D	Green	GaP	5600 1400*	11990 3990*	565*
	Yellow	GaAsP/GaP	2200 900*	8990 2390*	590*

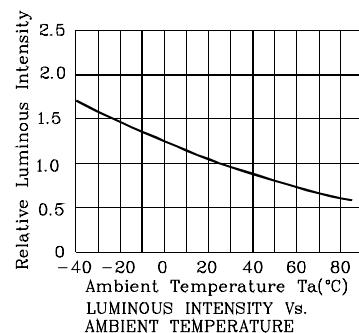
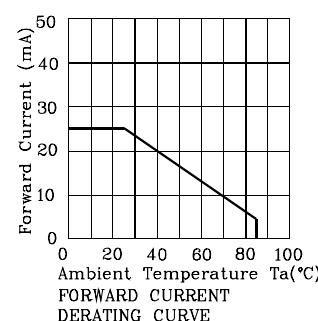
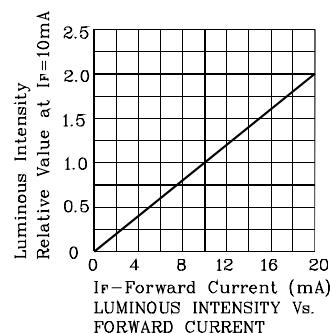
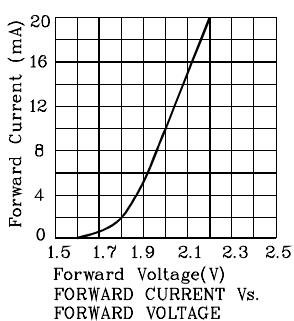
*Luminous intensity value and wavelength are in accordance with CIE127-2007

Mar 05, 2014

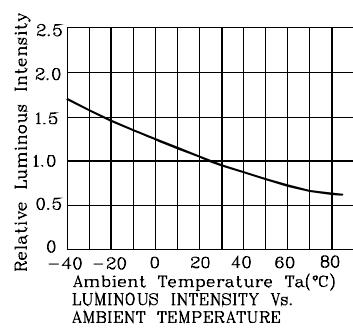
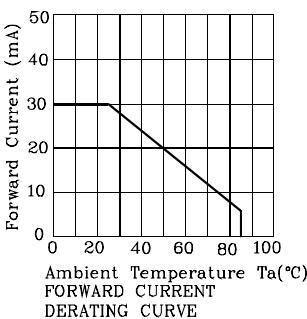
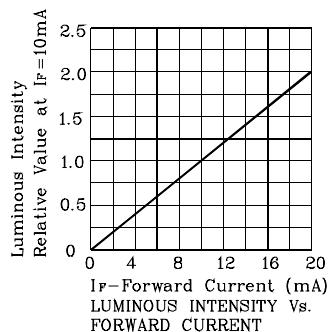
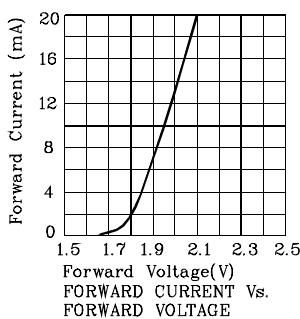
XDSA1919 V7-X Layout: Maggie L.



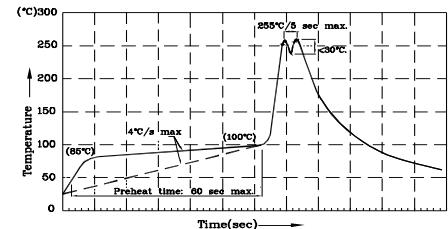
❖ **UG**



❖ **UY**



Wave Soldering Profile for Thru-Hole Products (Pb-Free Components)



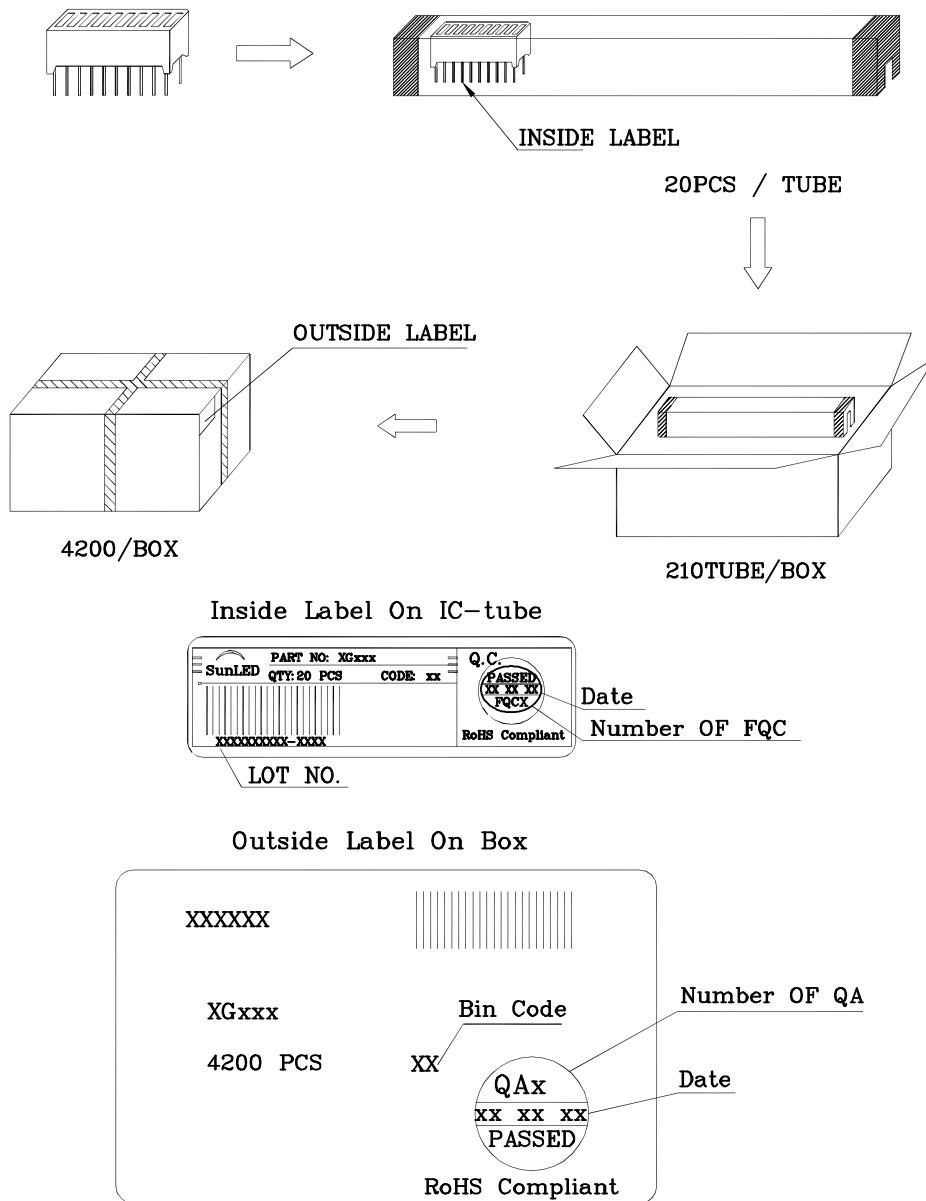
Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength), the typical accuracy of the sorting process is as follows:

1. Wavelength: $\pm 1\text{nm}$
2. Luminous Intensity / Luminous Flux: $\pm 15\%$
3. Forward Voltage: $\pm 0.1\text{V}$

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



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