

## **Excellent Integrated System Limited**

Stocking Distributor

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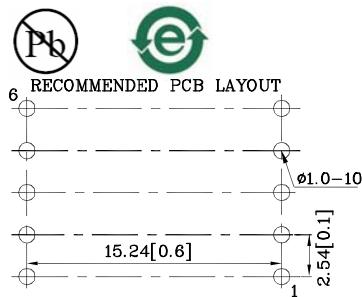
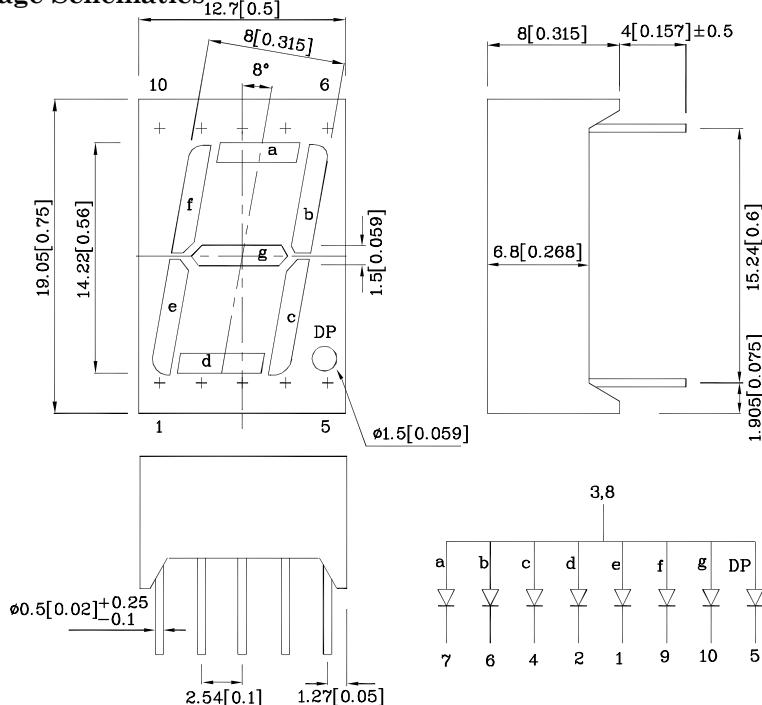
[XDUG14A](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

**Features**

- Low power consumption
- Robust package
- I.C. Compatible
- Standard configuration: Gray face w/ white segments
- Optional black face provides superior color contrast
- 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.

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

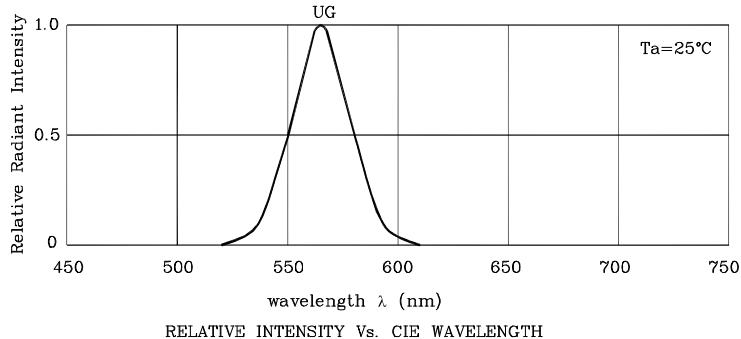
<b>Operating Characteristics</b> ( $T_A=25^\circ\text{C}$ )		<b>UG</b> (GaP)	<b>Unit</b>
Forward Voltage (Typ.) ( $I_F=10\text{mA}$ )	$V_F$	2	V
Forward Voltage (Max.) ( $I_F=10\text{mA}$ )	$V_F$	2.5	V
Reverse Current (Max.) ( $V_R=5\text{V}$ )	$I_R$	10	uA
Wavelength of Peak Emission CIE127-2007* (Typ.)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

<b>Part Number</b>	<b>Emitting Color</b>	<b>Emitting Material</b>	<b>Luminous Intensity CIE127-2007* (<math>I_F=10\text{mA}</math>) ucd</b>	<b>Wavelength CIE127-2007* nm</b>	<b>Description</b>
XDUG14A	Green	GaP	3600 2200*	10990 4490*	565* Common Anode, Rt. Hand Decimal.

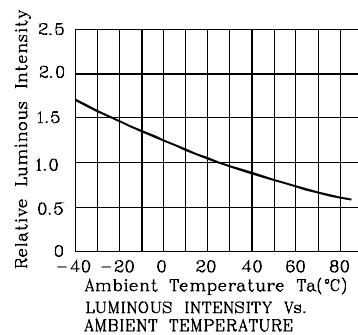
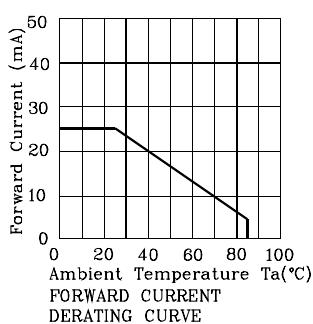
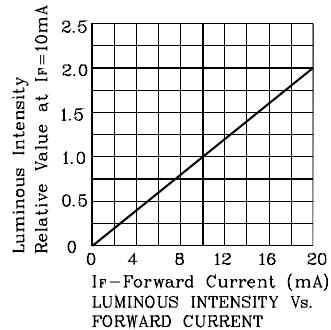
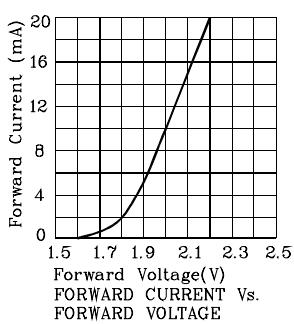
\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Mar 25, 2014

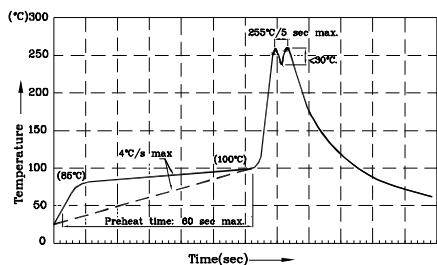
XDSA0223 V9-X Layout: Maggie L.



❖ **UG**



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



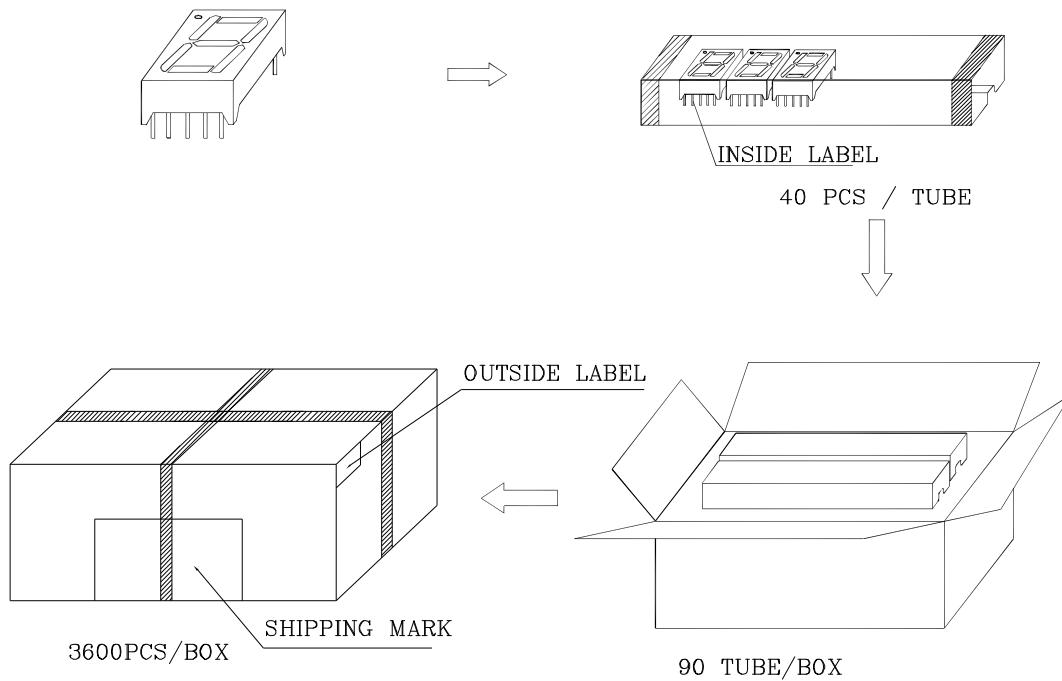
Remarks:

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:

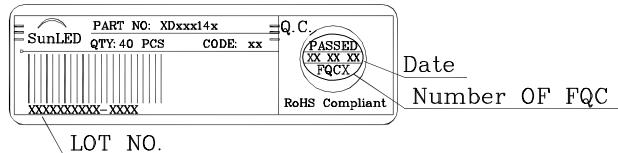
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

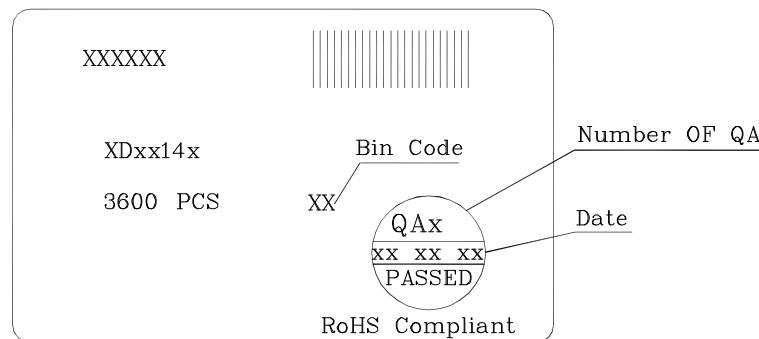
## PACKING & LABEL SPECIFICATIONS



Inside Label on IC-tube



Outside Label on Box



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