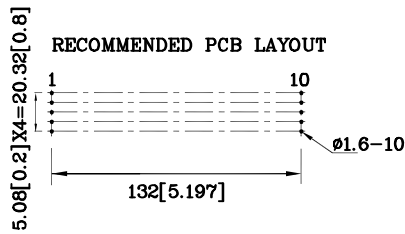
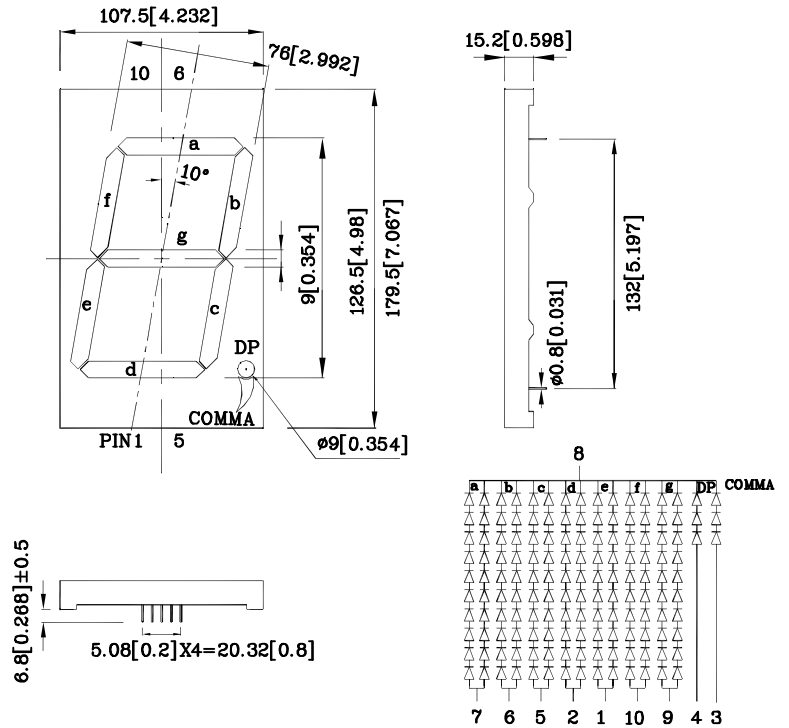


Features

- 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.

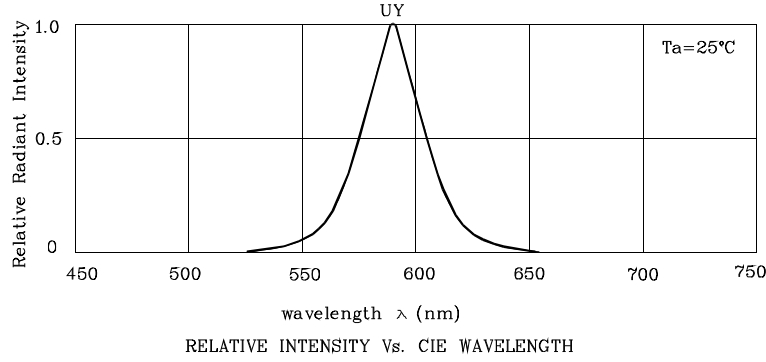
Absolute Maximum Ratings ($T_A=25^\circ\text{C}$)		UY (GaAsP/GaP)	Unit
Reverse Voltage Per Segment Or (Dp And Comma)	V_R	5 (5)	V
Forward Current Per Segment Or (Dp And Comma)	I_F	60 (30)	mA
Forward Current (Peak) Per Segment Or (Dp And Comma) 1/10 Duty Cycle 0.1ms Pulse Width	i_{FS}	280 (140)	mA
Power Dissipation Per Segment Or (Dp And Comma)	P_D	1500 (450)	mW
Operating Temperature	T_A	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds		

Operating Characteristics ($T_A=25^\circ\text{C}$)		UY (GaAsP/GaP)	Unit
Forward Voltage (Typ.) ($I_F=10\text{mA}$) Per Segment Or (Dp And Comma)	V_F	19.5 (5.85)	V
Forward Voltage (Max.) ($I_F=10\text{mA}$) Per Segment Or (Dp And Comma)	V_F	25 (7.5)	V
Reverse Current (Max.) ($V_R=5\text{V}$) Per Segment Or (Dp And Comma)	I_R	10 (10)	μA
Wavelength of Peak Emission CIE127-2007* (Typ.) ($I_F=10\text{mA}$)	λ_P	590*	nm
Wavelength of Dominant Emission CIE127-2007* (Typ.) ($I_F=10\text{mA}$)	λ_D	588*	nm
Spectral Line Full Width At Half-Maximum (Typ.) ($I_F=10\text{mA}$)	$\Delta\lambda$	35	nm
Capacitance (Typ.) ($V_F=0\text{V}$, $f=1\text{MHz}$)	C	20	pF

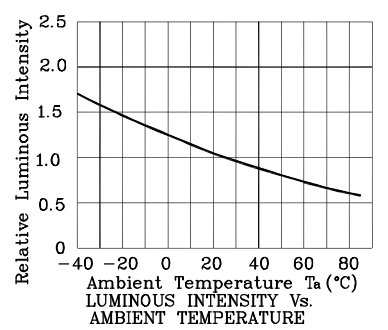
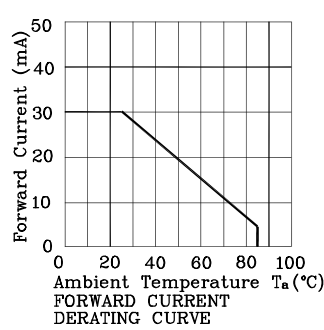
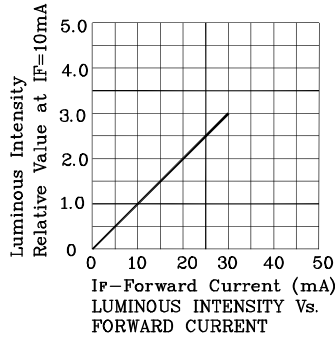
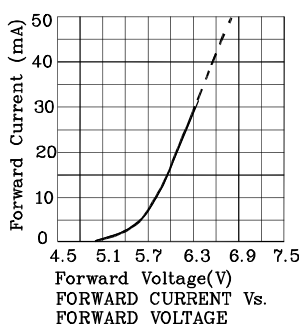
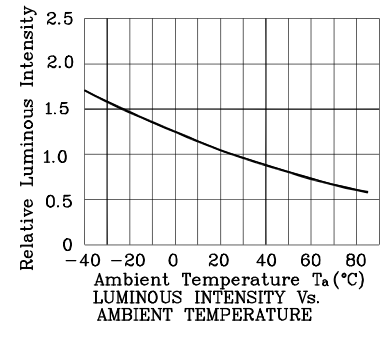
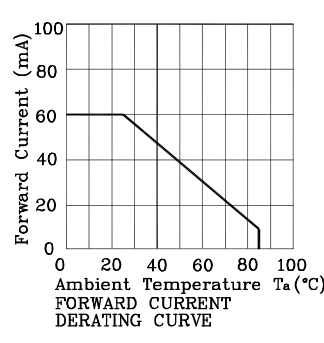
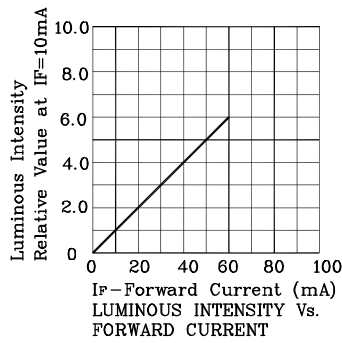
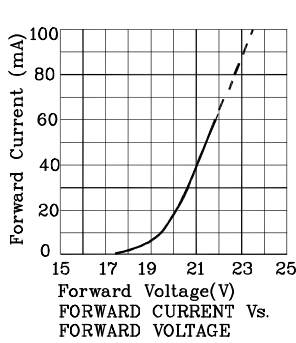
Luminous Intensity CIE127-2007* (I_F=10mA) ucd Wavelength CIE127-2007* nm λ_P Description

Part Number	Emitting Color	Emitting Material	min.		typ.		Description
			min.	typ.	min.	typ.	
XDUY127C-B	Yellow	GaAsP/GaP	21000 9000*	48990 16000*	590*		Common Cathode, Rt. Hand Decimal.

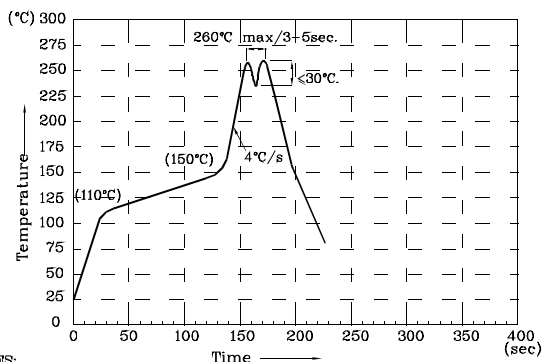
*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.



❖ UY



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



NOTES:

1. Recommend the wave temperature 245°C~260°C. The maximum soldering temperature should be less than 260°C.
2. Do not apply stress on epoxy resins when temperature is over 85°C.
3. The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4. During wave soldering, the PCB top-surface temperature should be kept below 105°C.
5. No more than once.

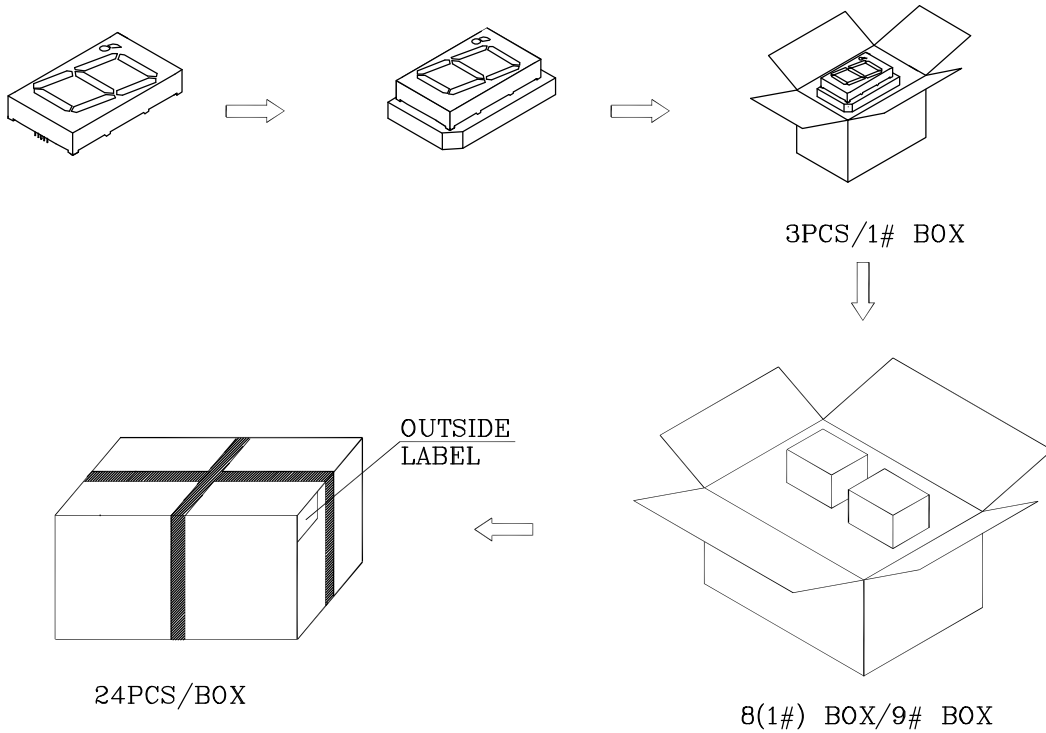
Remarks:

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:

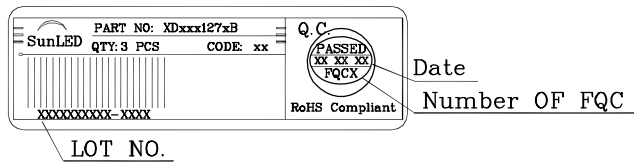
1. Wavelength: +/-1nm
2. Luminous Intensity / Luminous Flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS



Inside Label On 1#BOX



Outside Label On Box

