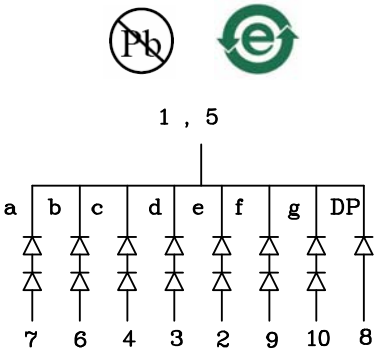
SunLED
www.SunLED.com

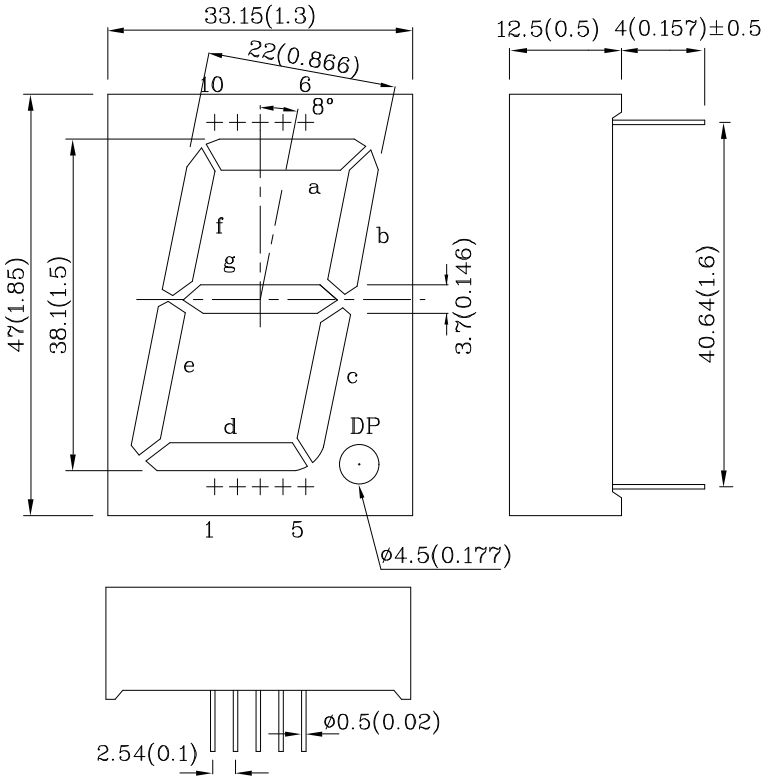
Part Number: **DUY38C**

38.1mm (1.5") SINGLE DIGIT NUMERIC DISPLAY

Features

- 1.5 INCH DIGIT HEIGHT.
- LOW CURRENT OPERATION.
- EXCELLENT CHARACTER APPEARANCE.
- HIGH LIGHT OUTPUT.
- EASY MOUNTING ON P.C. BOARDS OR SOCKETS.
- I.C. COMPATIBLE.
- MECHANICALLY RUGGED.
- STANDARD : GRAY FACE, WHITE SEGMENT.
- RoHS COMPLIANT.





Notes:

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

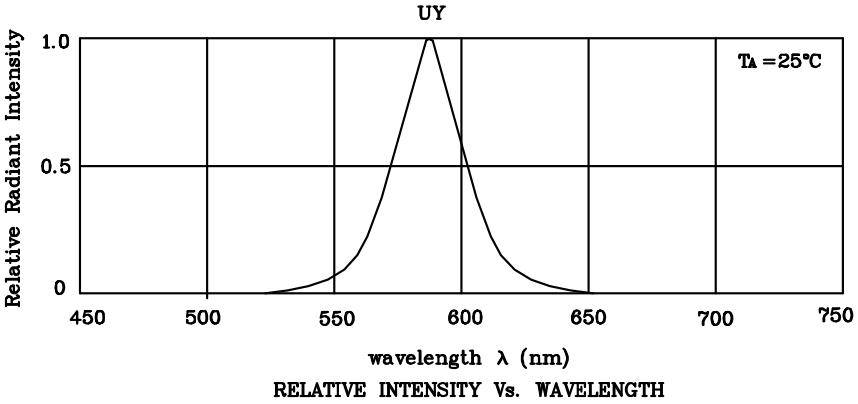
Absolute Maximum Ratings (TA=25°C)		**UY (GaAsP/GaP)**	**Unit**
Reverse Voltage Per Segment or (Dp)	VR	10(5)	V
Forward Current Per Segment or (Dp)	IF	30(30)	mA
Forward Current (Peak) 1/10 Duty Cycle 0.1ms Pulse Width Per Segment or (Dp)	iFS	140(140)	mA
Power Dissipation Per Segment or (Dp)	PT	150(75)	mW
Operating Temperature	TA	-40 ~ +85	°C
Storage Temperature	Tstg	-40 ~ +85	
Lead Solder Temperature [2mm Below Package Base]	260°C For 3-5 Seconds		

Operating Characteristics (TA=25°C)		**UY (GaAsP/GaP)**	**Unit**
Forward Voltage (Typ.) (IF=10mA) Per Segment or (Dp)	VF	3.9(1.95)	V
Forward Voltage (Max.) (IF=10mA) Per Segment or (Dp)	VF	5.0(2.5)	V
Reverse Current (Max.) (VR=10V(5V)) Per Segment or (Dp)	IR	10 (10)	uA
Wavelength of Peak Emission (Typ.) (IF=10mA)	λ P	590	nm
Wavelength of Dominant Emission (Typ.) (IF=10mA)	λ D	588	nm
Spectral Line Full Width At Half-Maximum (Typ.) (IF=10mA)	Δλ	35	nm
Capacitance (Typ.) (VF=0V, f=1MHz)	C	20	pF

Part Number: **DUY38C**

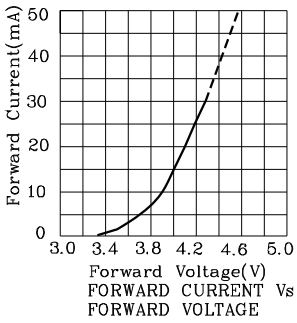
38.1mm (1.5") SINGLE DIGIT NUMERIC DISPLAY

Part Number	Emitting Color	Emitting Material	Luminous Intensity (IF=10mA) ucd		Wavelength nm λ P	Description
			min.	typ.		
DUY38C	Yellow	GaAsP/GaP	1900	7990	590	Common Cathode, Rt. Hand Decimal

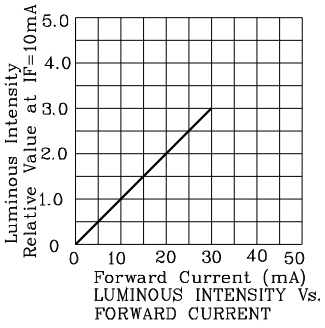


RELATIVE INTENSITY Vs. WAVELENGTH

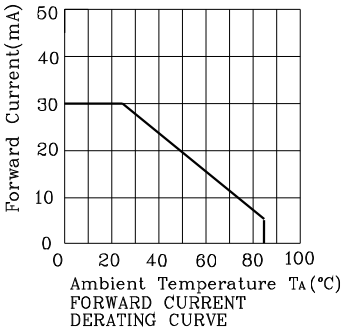
❖ **UY**



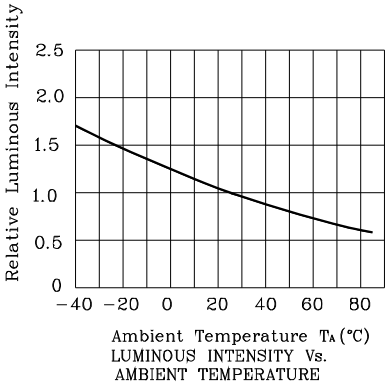
FORWARD CURRENT Vs
FORWARD VOLTAGE



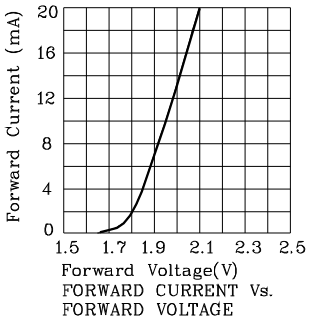
LUMINOUS INTENSITY Vs.
FORWARD CURRENT



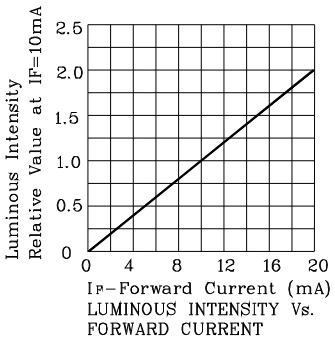
FORWARD CURRENT
DERATING CURVE



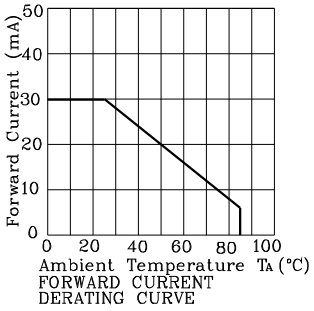
LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE



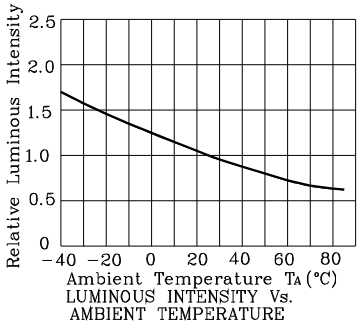
FORWARD CURRENT Vs.
FORWARD VOLTAGE



LUMINOUS INTENSITY Vs.
FORWARD CURRENT

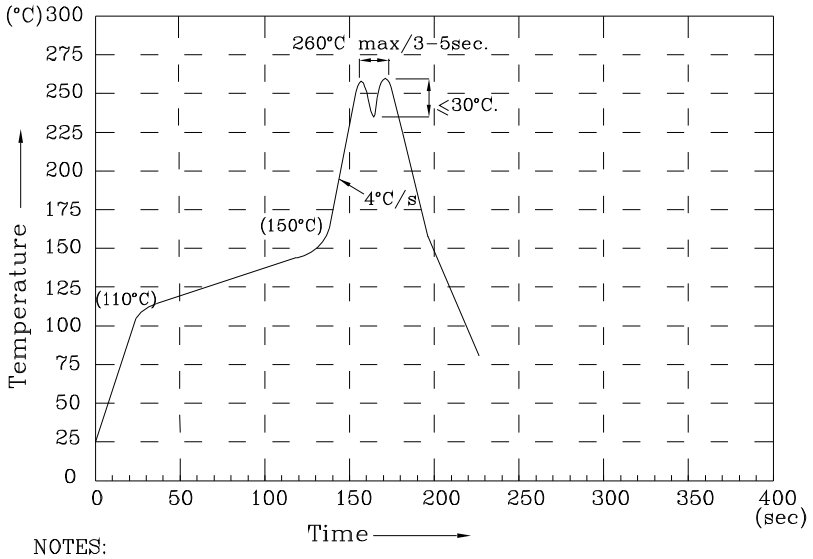


FORWARD CURRENT
DERATING CURVE



LUMINOUS INTENSITY Vs.
AMBIENT TEMPERATURE

Wave Soldering Profile For Lead-free Through-hole LED.



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 degree°C.
3.The soldering profile apply to the lead free soldering (Sn/Cu/Ag alloy).
4.No more than once.

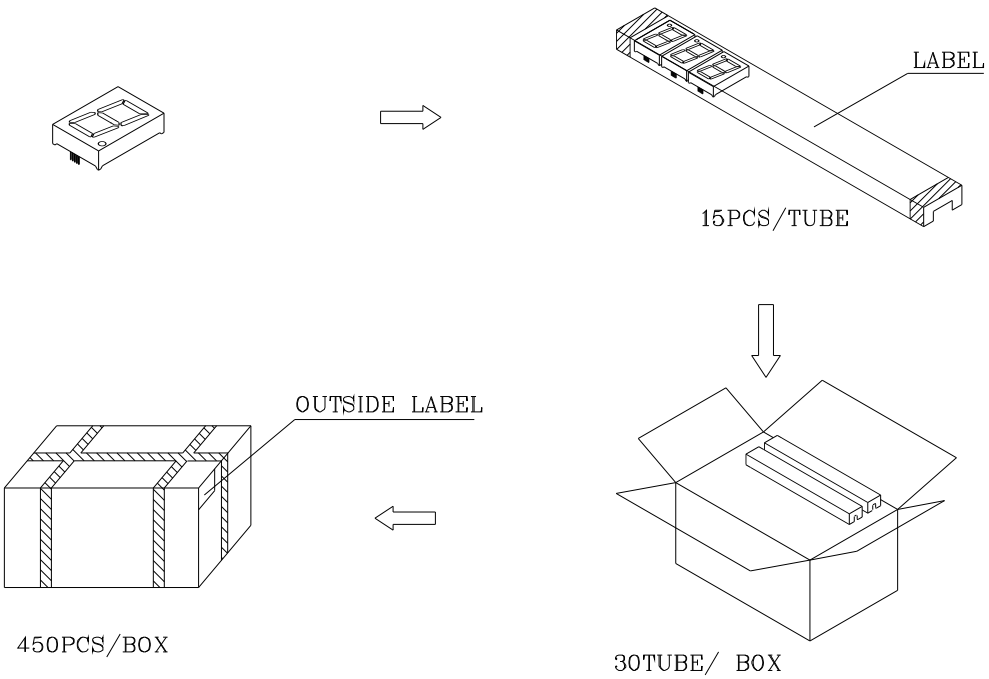
Remarks:

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:

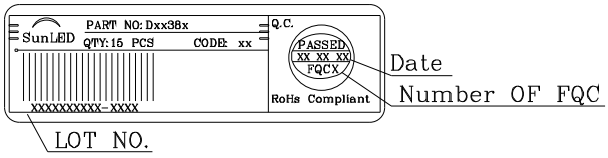
1. Wavelength: +/-1nm
2. Luminous intensity / luminous flux: +/-15%
3. Forward Voltage: +/-0.1V

Note: Accuracy may depend on the sorting parameters.

PACKING & LABEL SPECIFICATIONS DUY38C



Inside LABEL Paste On The IC-tube



Outside LABEL Paste On The Box

