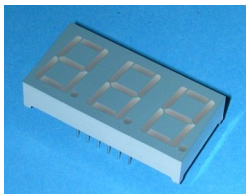


Display ▪ Through-hole ELT-512SUBWA/X9



Features

- Industrial standard size.
- Low power consumption.
- Categorized for luminous intensity.
- Pb free and RoHS compliant.

Description

- The ELT-512SUBWA/X9 is a 14.22mm (0.56") digit height seven-segment display.
- The display provides excellent reliability in bright ambient light.
- The device is made with white segments and gray surface.

Applications

- Home appliances
- Instrument panels
- Digital readout displays

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
InGaN	Blue	White Diffusion

Absolute Maximum Ratings (Ta=25 °C)

Parameter	Symbol	Rating	Unit
Reverse Voltage	V_R	5	V
Forward Current	I_F	25	mA
Peak Forward Current (Duty 1/10 @1KHz)	I_{FP}	100	mA
Power Dissipation	P_d	110	mW
Operating Temperature	T_{opr}	-40 ~ +85	
Storage Temperature	T_{stg}	-40 ~ +100	
ESD (Classification acc. AEC Q101)	ESD_{HBM}	150	V
Soldering Temperature (Soldering time 5 seconds)	T_{sol}	260	

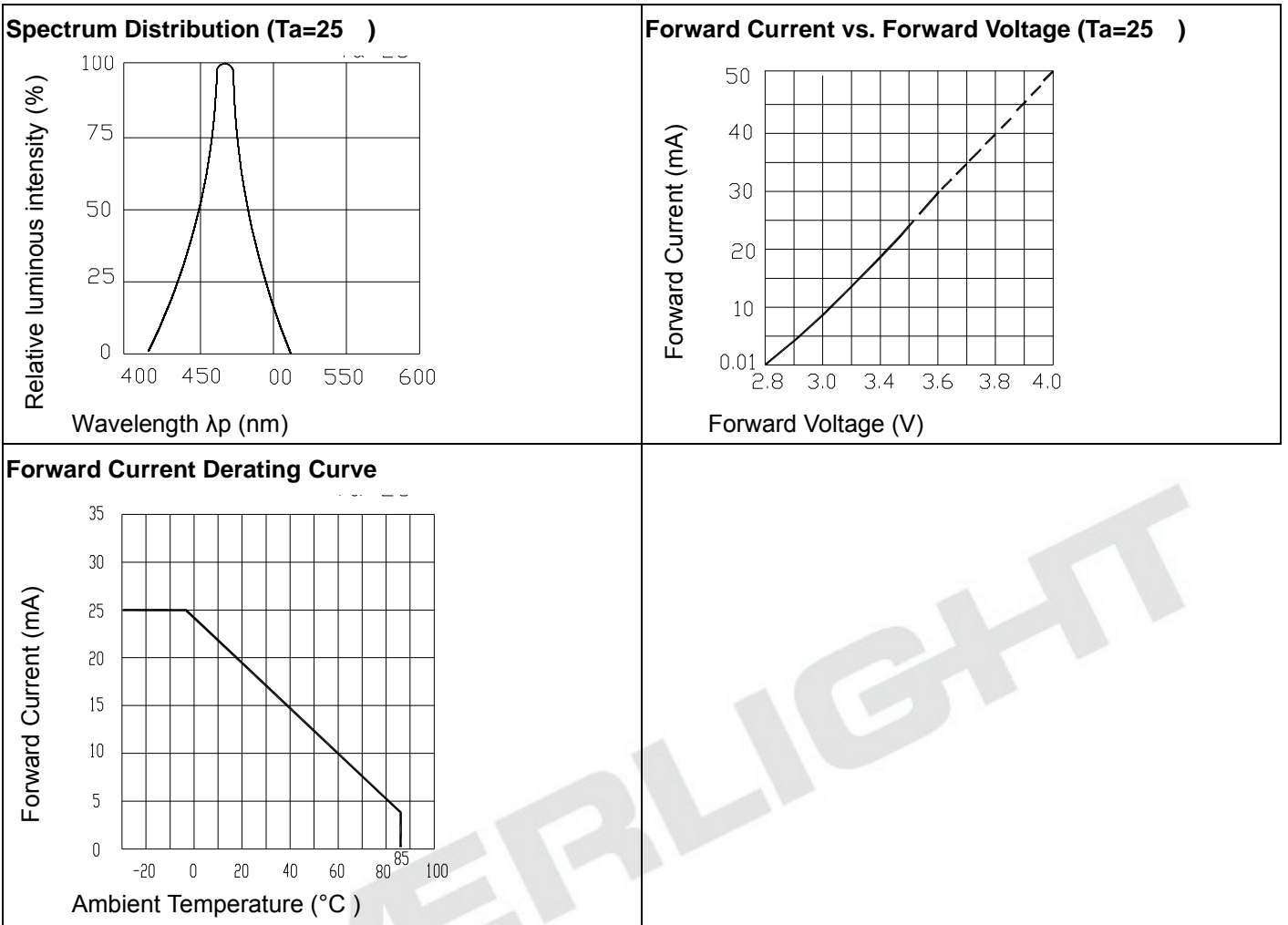
Electro-Optical Characteristics (Ta=25 °C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity ^{*1}	I_v	11	24	-----	mcd	$I_F=10mA$
Peak Wavelength	λ_p	-----	468	-----	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-----	470	-----	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta\lambda$	-----	35	-----	nm	$I_F=20mA$
Forward Voltage	V_F	-----	3.5	4.3	V	$I_F=20mA$
Reverse Current	I_R	-----	-----	100	μA	$V_R=5V$

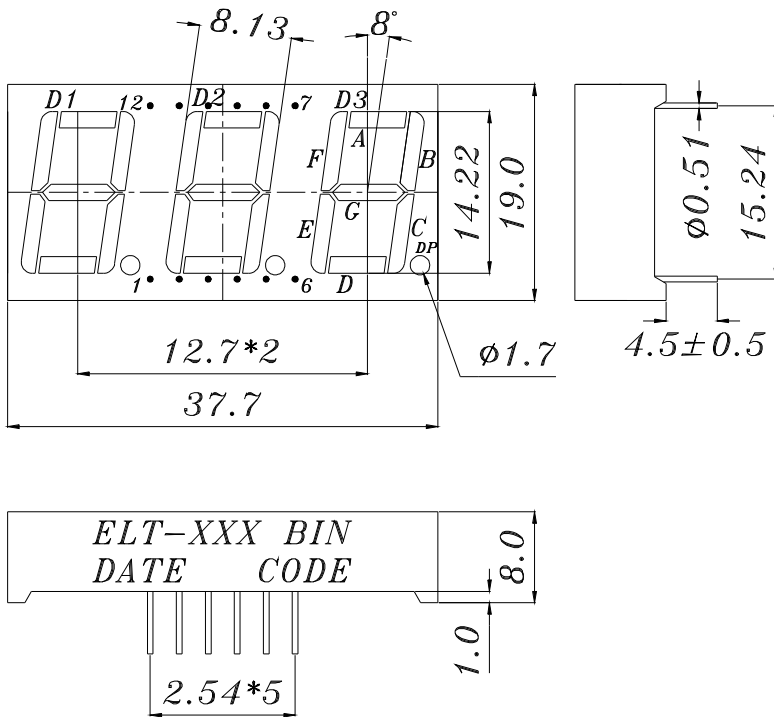
Note:

- Luminous Intensity is a average value which is measured one 7-segment.
- Tolerance of Luminous Intensity: $\pm 10\%$
- Tolerance of Forward Voltage: $\pm 0.1V$

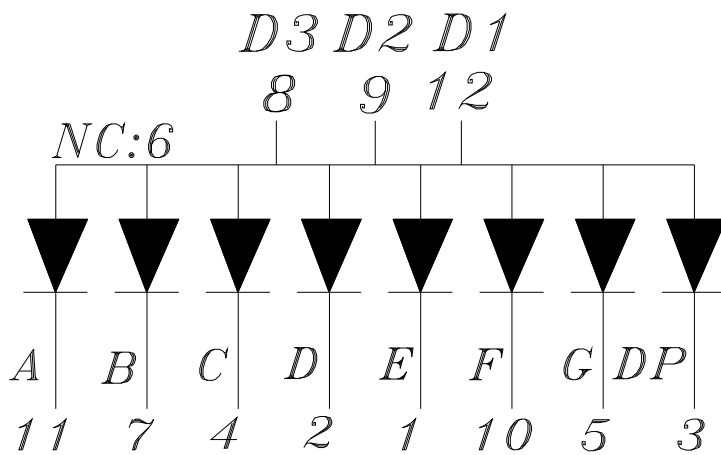
Typical Electro-Optical Characteristics Curves



Package Dimension & Internal Circuit Diagram

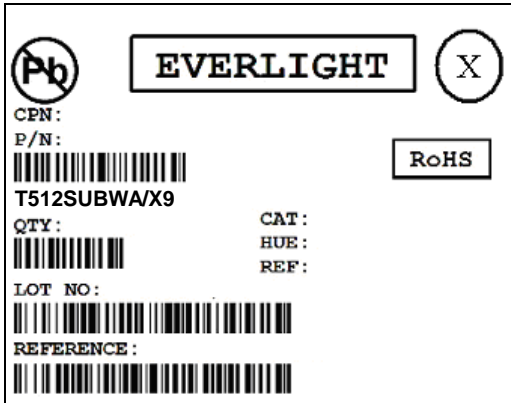


- COMMON ANODE*
- 1 CATHODE E
 - 2 CATHODE D
 - 3 CATHODE DP
 - 4 CATHODE C
 - 5 CATHODE G
 - 6 NO CONNECT
 - 7 CATHODE B
 - 8 COMMON ANODE D3
 - 9 COMMON ANODE D2
 - 10 CATHODE F
 - 11 CATHODE A
 - 12 COMMON ANODE D1



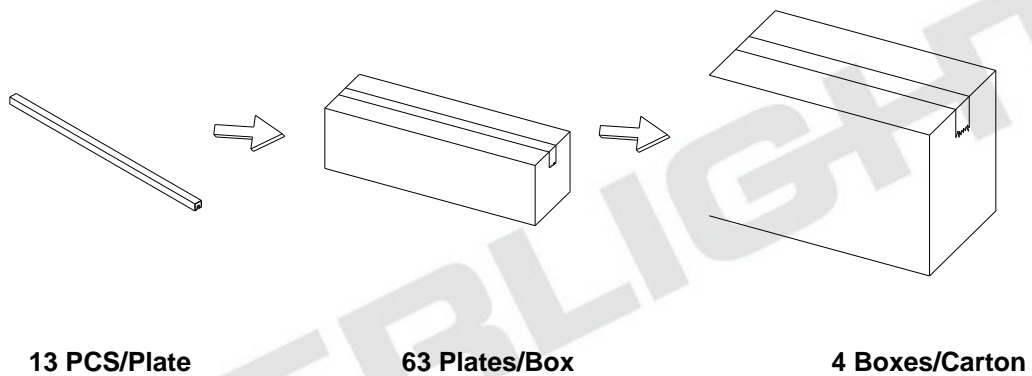
Note: Tolerances unless mentioned ± 0.25 mm. Unit = mm

Label Explanation



- CPN: Customer's Product Number
- P/N: Product Number
- QTY: Packing Quantity
- CAT: Luminous Intensity Rank
- HUE: Reference
- REF: Reference
- LOT No: Lot Number
- REFERENCE: Volume Label code

Packing Process



Application Restrictions

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