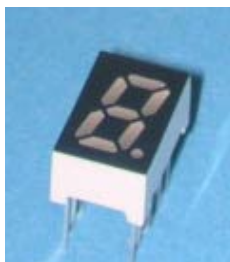


Display ■ Through-hole ELS-335SYGWB/S530-E2/S660



Features

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

Description

- The ELS-335SYGWB/S530-E2/S660 is a 8.0mm (0.30") digit height seven-segment display.
- The display provides excellent reliability in bright ambient light.
- The device is made with white segments and black surface.

Applications

- Home appliances
- Instrument panels
- Digital readout displays

Device Selection Guide

Chip Materials	Emitted Color	Resin Color
AlGaInP	Brilliant Yellow Green	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}	60	mA
Power Dissipation	P_d	60	mW
Operating Temperature	T_{opr}	-40 ~ +85	°C
Storage Temperature	T_{stg}	-40 ~ +100	°C
ESD (Classification acc. AEC Q101)	ESD_{HBM}	2000	V
Soldering Temperature (Soldering time ≤ 5 seconds)	T_{sol}	260	°C

Electro-Optical Characteristics (Ta=25°C)

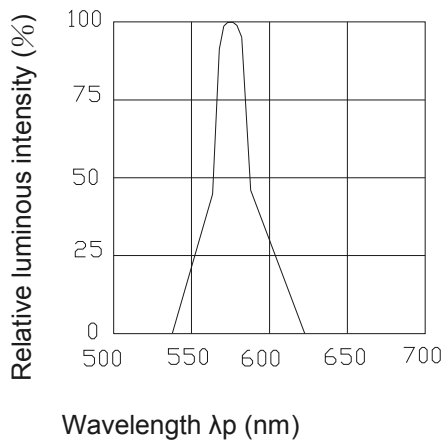
Parameter	Symbol	Min.	Typ.	Max.	Unit	Condition
Luminous Intensity ^{*1}	I_v	2.8	6.4	-----	mcd	$I_F=10mA$
Peak Wavelength	λ_p	-----	575	-----	nm	$I_F=20mA$
Dominant Wavelength	λ_d	-----	573	-----	nm	$I_F=20mA$
Spectrum Radiation Bandwidth	$\Delta\lambda$	-----	20	-----	nm	$I_F=20mA$
Forward Voltage	V_F	-----	2.0	2.4	V	$I_F=20mA$
Reverse Current	I_R	-----	-----	100	μA	$V_R=5V$

Note:

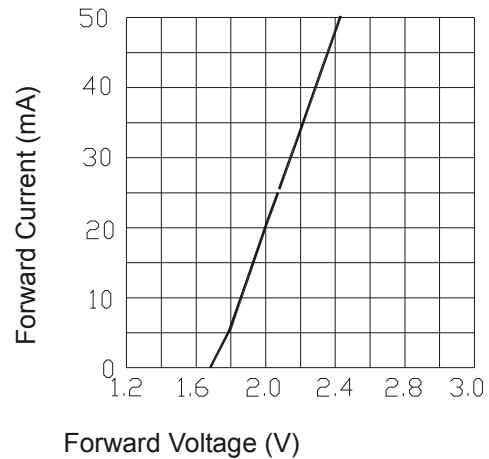
1. Luminous Intensity is a average value which be measured one 7-segment.
2. Tolerance of Luminous Intensity: ± 10 %
3. Tolerance of Forward Voltage: ± 0.1V

Typical Electro-Optical Characteristics Curves

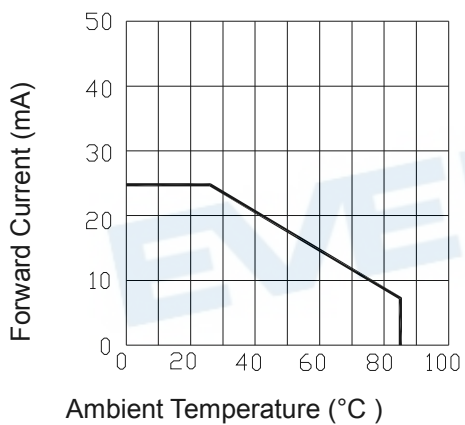
Spectrum Distribution (Ta=25°C)



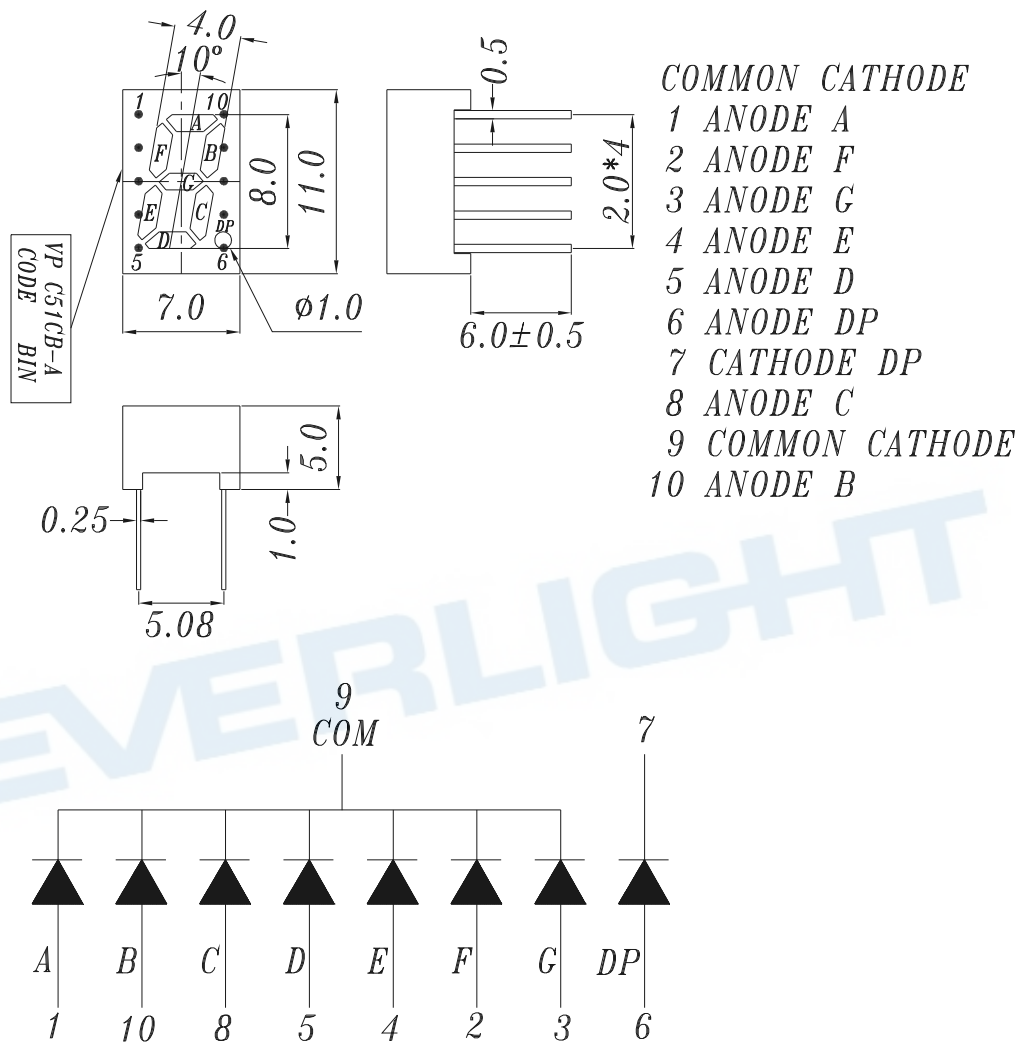
Forward Current vs. Forward Voltage (Ta=25°C)



Forward Current Derating Curve



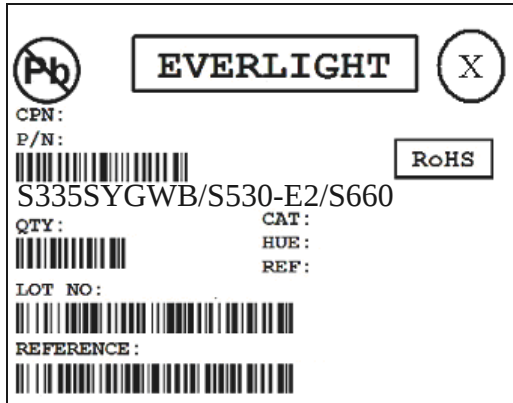
Package Dimension & Internal Circuit Diagram



Note: Tolerances unless mentioned $\pm 0.25\text{mm}$. Unit = mm

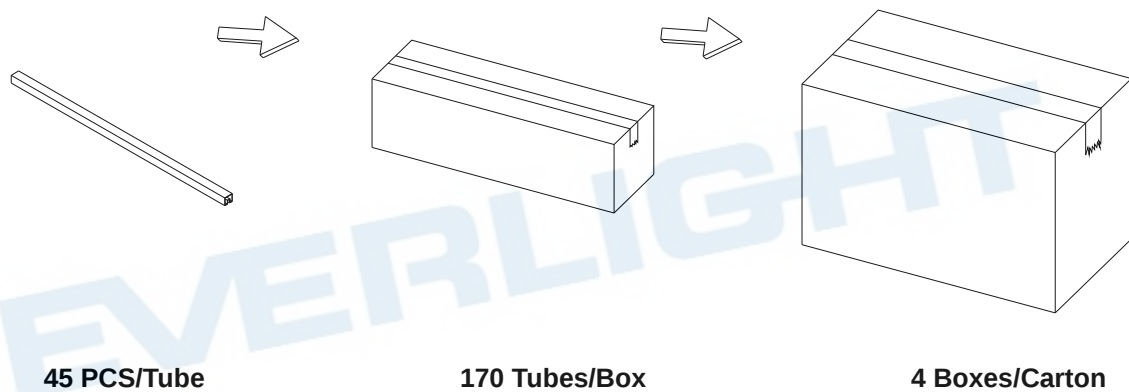
Packing Materials

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

1. specification described in this document. Above specification may be changed without notice. EVERLIGHT will reserve authority on material change for above specification.
2. When using this product, please observe the absolute maximum ratings and the instructions for using outlined in these specification sheets. EVERLIGHT assumes no responsibility for any damage resulting from use of the product which does not comply with the absolute maximum ratings and the instructions included in these specification sheets.
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