



YDD-A56VBWK/YDD-C56VBWK

0.56 inch (14.20 mm), Red

Dual Digit 7-segment LED Display

Technical Data Sheet

Features:

- 0.56" (inch) digit height
- Low power consumption
- High reliability
- Excellent characters appearance
- Available in common cathode or common anode
- RoHS Compliant



Descriptions:

- The YDD-A56VBWK(YDD-C56VBWK) is a 0.56 inch (14.20mm) height Dual digit 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
- Game console systems

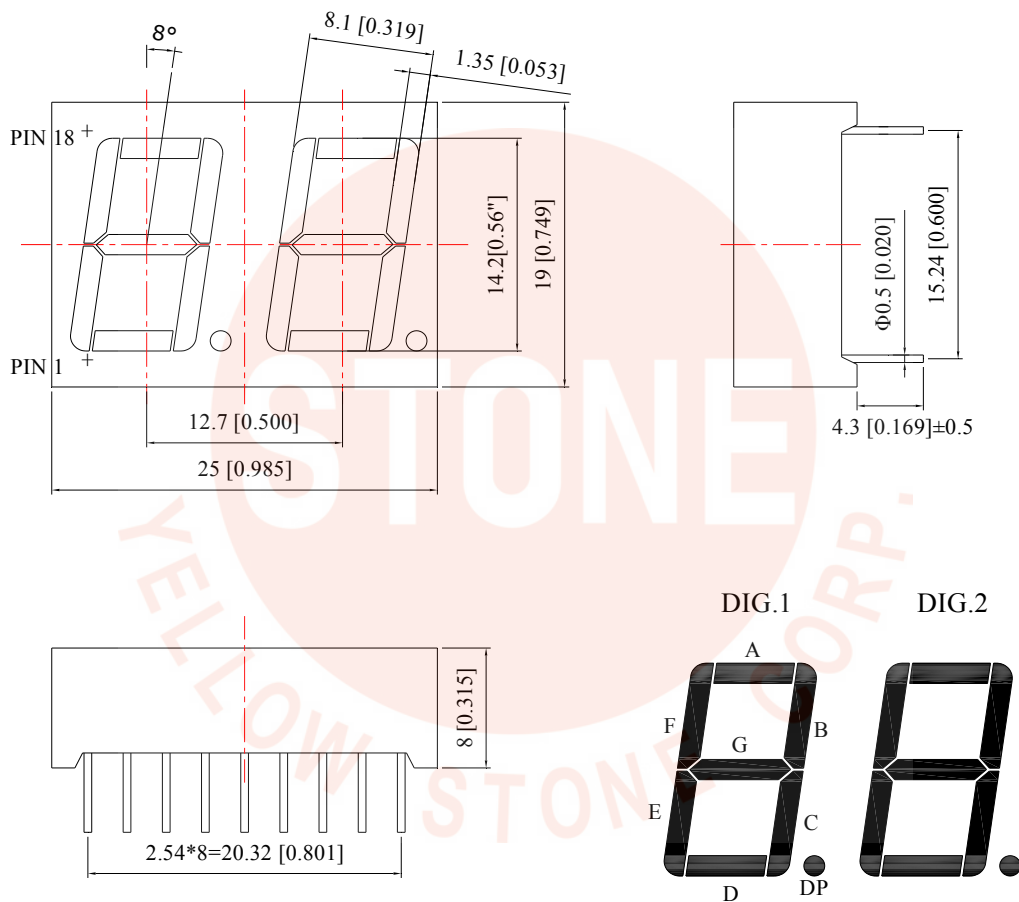
Device Selection Guide:

Part No.	Emitting Color	Polarity
YDD-A56VBWK	Red	Common Anode
YDD-C56VBWK	Red	Common Cathode



Technical Data Sheet

Package Dimension:



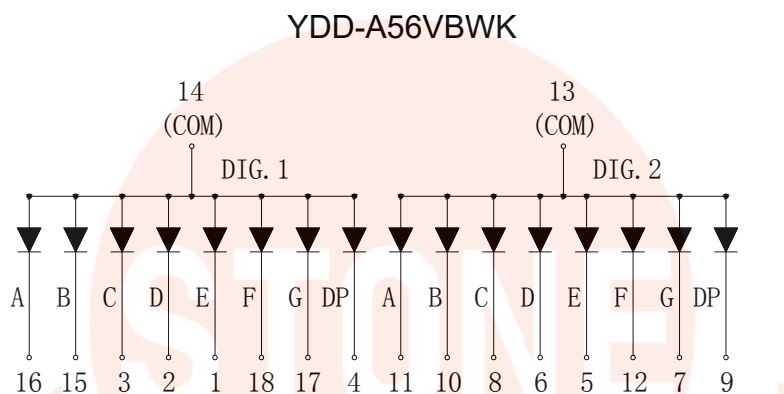
Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.

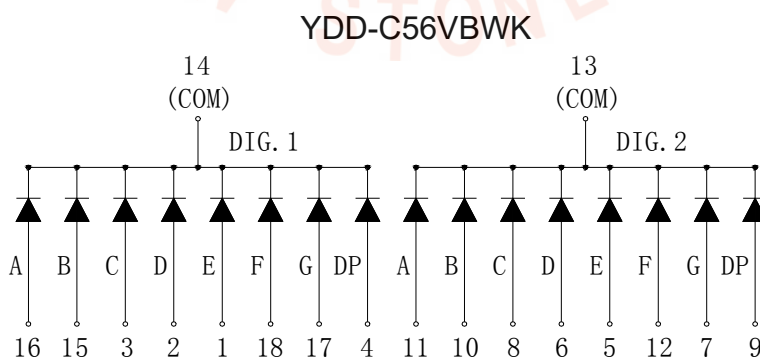
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Internal Circuit Diagram:

Internal Circuit Diagram (Common Anode)



Internal Circuit Diagram (Common Cathode)



Technical Data Sheet

Absolute Maximum Ratings at Ta=25°C

Parameters	Symbol	Max	Unit
Power Dissipation Per Segment	P_d	48	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	I_{FP}	100	mA
Forward Current Per Segment	I_F	20	mA
Reverse Voltage Per Segment	V_R	5	V
Operating Temperature Range	T_{opr}	-40°C to +80°C	
Storage Temperature Range	T_{stg}	-40°C to +85°C	
Soldering Temperature	T_{sld}	260°C for 5 Seconds	

Electrical Optical Characteristics at Ta=25°C

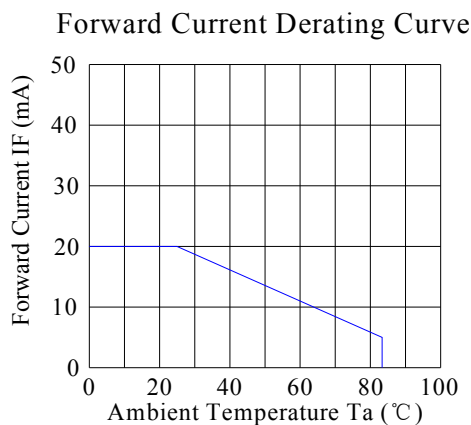
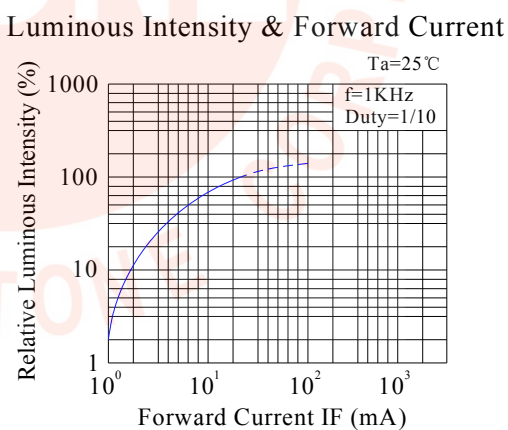
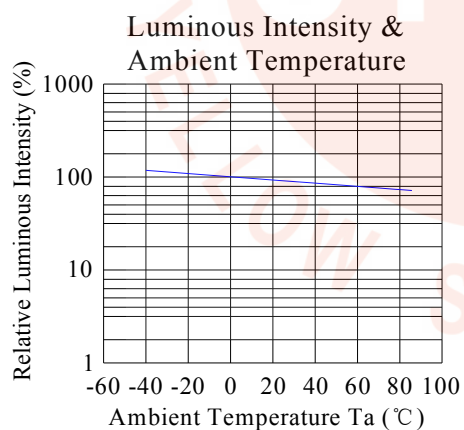
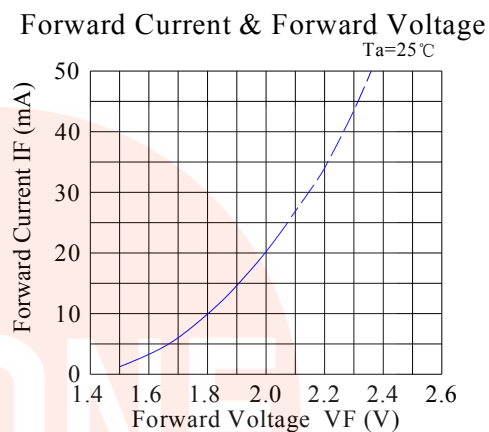
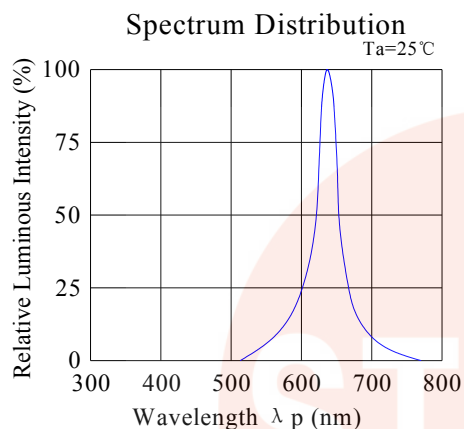
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Average Luminous Intensity	I_v	20.0	40.0	---	mcd	IF=10mA (Note a)
		40.0	80.0	---	mcd	IF=20mA (Note a)
Luminous Intensity Matching Ratio	I_{v-m}	---	---	2:1		IF=10mA
Peak Emission Wavelength	λ_p	---	632	---	nm	IF=20mA
Dominant Wavelength	λ_d	---	624	---	nm	IF=20mA (Note b)
Spectral Line Half-Width	$\Delta\lambda$	---	20	---	nm	IF=20mA
Forward Voltage Per Segment	V_F	---	2.0	2.4	V	IF=20mA
Reverse Current Per Segment	I_R	---	---	50	μA	VR=5V

Notes:

- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- The dominant wavelength (λ_d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

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Typical Electrical / Optical Characteristics Curves (25°C Ambient Temperature Unless Otherwise Noted)



Technical Data Sheet

Packing & Label Specifications:

