

Technical Data Sheet

YDS-A32VBWK

8.00mm (0.32 inch), Red LED Display Single Digit 7-segment LED Display

Features

- High reliability
- Low power consumption
- Excellent characters appearance
- Evenly lighted segments
- Wide viewing angle
- Easy mounting on PCB or sockets
- I.C. compatible
- RoHS compliant

Descriptions

- The YDS-A32VBWK is a 8.00mm (0.32inch) digit height seven-segment LED display.
- The display provides excellent reliability in bright ambient light.
- The device is as either common anode or common cathode.
- The device is made with white diffused segments and black surface.

Applications

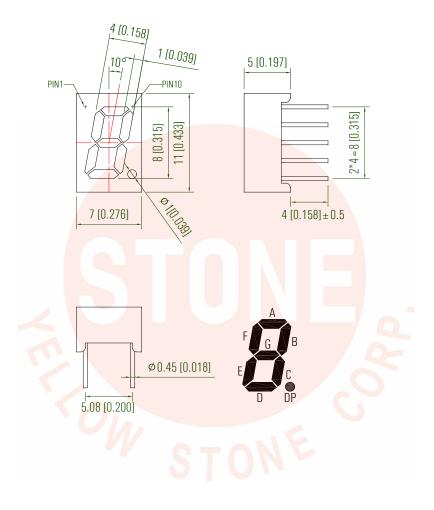
- Home and smart appliances
- Instrument panels
- Display time and digital combination
- Test and measurement equipment
- Control units

Device Selection Guide

Part No.	Emitting Color	Circuit Common		
YDS-A32VBWK	Red	Common Anode		



Package Dimension

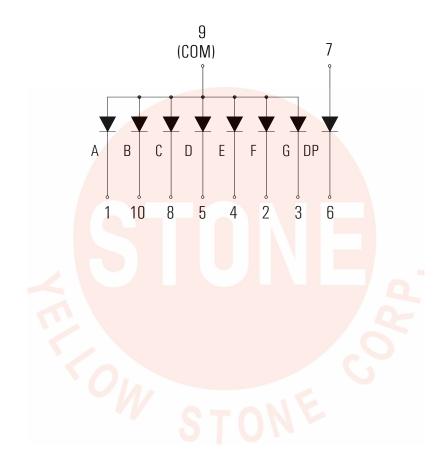


Notes:

- 1. All dimensions are in millimeters (inches).
- 2. Tolerance is \pm 0.25 mm (.010") unless otherwise noted.
- 3. The specifications, characteristics and technical data described in the datasheet are subject to change without prior notice.



Internal Circuit Diagram:



http://www.ystone.com.tw



Absolute Maximum Ratings at Ta=25°C

Parameters	Symbol	Max	Unit mW		
Power Dissipation Per chip	P _d	48			
Peak Forward Current Per segment (1/10 Duty Cycle, 0.1ms pulse width)	I _{FP}	40	mA		
Forward Current Per segment	I _F	20	mA		
Reverse Voltage Per chip	V _R	5	V		
Operating Temperature Range	T _{opr}	-40°C to +	-40°C to +80°C		
Storage Temperature Range	T _{stg}	-40°C to +8	-40°C to +85°C		
Soldering Temperature	T _{sld}	260°C for 5 S	260°C for 5 Seconds		

Electrical Optical Characteristics at Ta=25°C

Parameters	Symbol	Min.	Тур.	Max.	Unit	Test Condition
Average Luminous Intensity	lv -	10.0	20.0		mcd	IF=10mA (Note a)
		20.0	40.0		mcd	IF=20mA (Note a)
Luminous Intensity Matching Ratio	I _{v-m}			2:1	5	IF=20mA
Peak Emission Wavelength	λρ		632		nm	IF=20mA
Dominant Wavelength	λd	(624		nm	IF=20mA (Note b)
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Forward Voltage Per Segment	V _F		2.0	2.4	V	IF=20mA (Note c)
Reverse Current Per Segment	I _R			50	μA	VR=5V
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Notes:

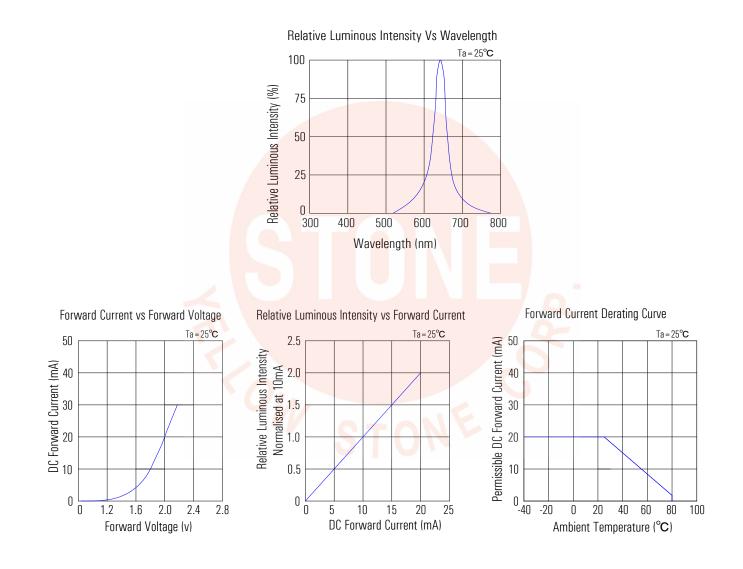
a. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve. Tolerance of Luminous Intensity: \pm 10 %

b. The dominant wavelength (λ d) is derived from the CIE chromaticity diagram and represents the single wavelength which defines the color of the device.

c. Tolerance of Forward Voltage: ± 0.1V



Typical Electrical/Optical Characteristics Curves





Packing & Label Specifications:

