

Technical Data Sheet

Features:

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

Descriptions:

- The YDS-A32GBWK/YDS-C32GBWK is a 0.32 inch (8.0mm) height single digit display.
- The display provides excellent reliability in bright ambient light.
- The device is made with white segments and black surface.

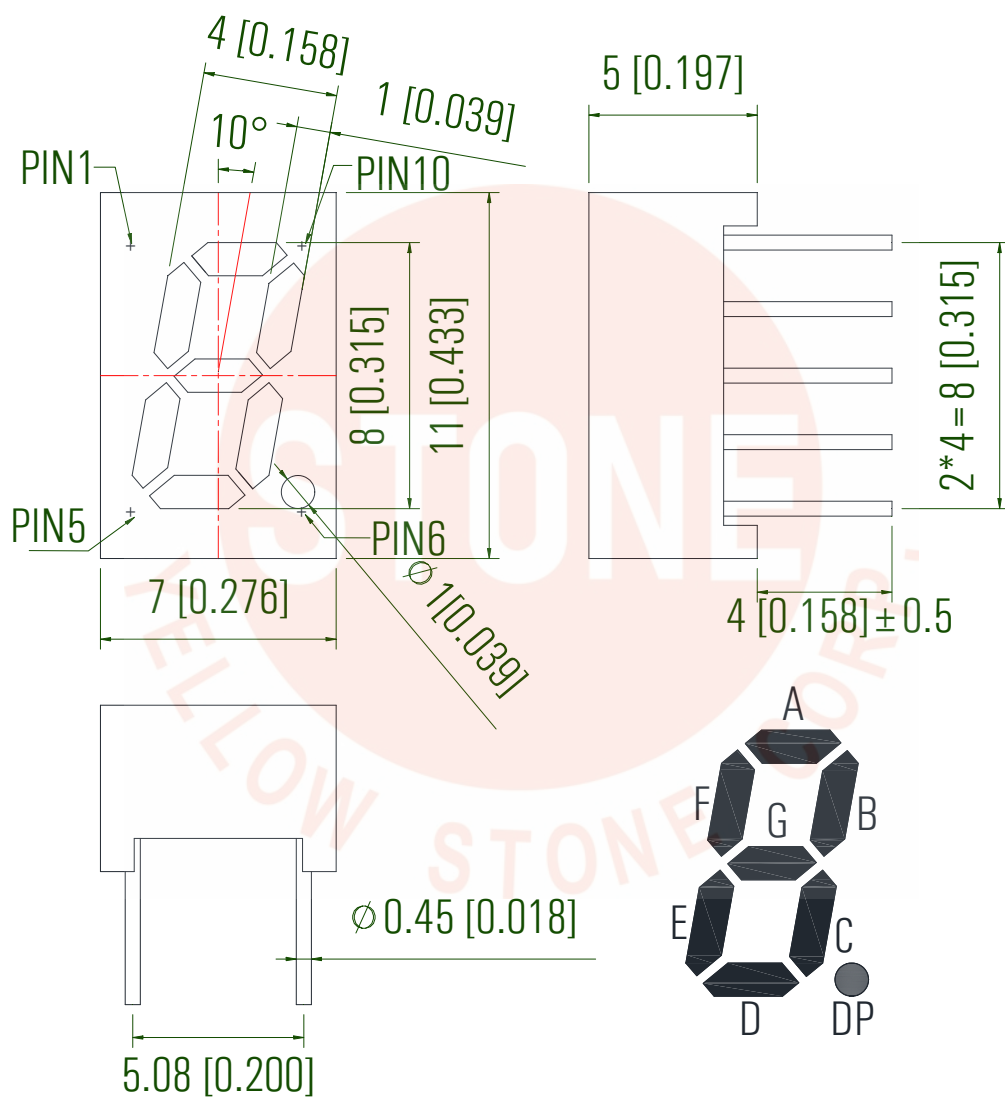
Applications:

- Home appliances
- Instrument panels
- Digital readout displays
- Game console systems

Device Selection Guide:

Part No.	Emitting Color	Polarity
YDS-A32GBWK	Yellow Green	Common Anode
YDS-C32GBWK	Yellow Green	Common Cathode

Package Dimension:

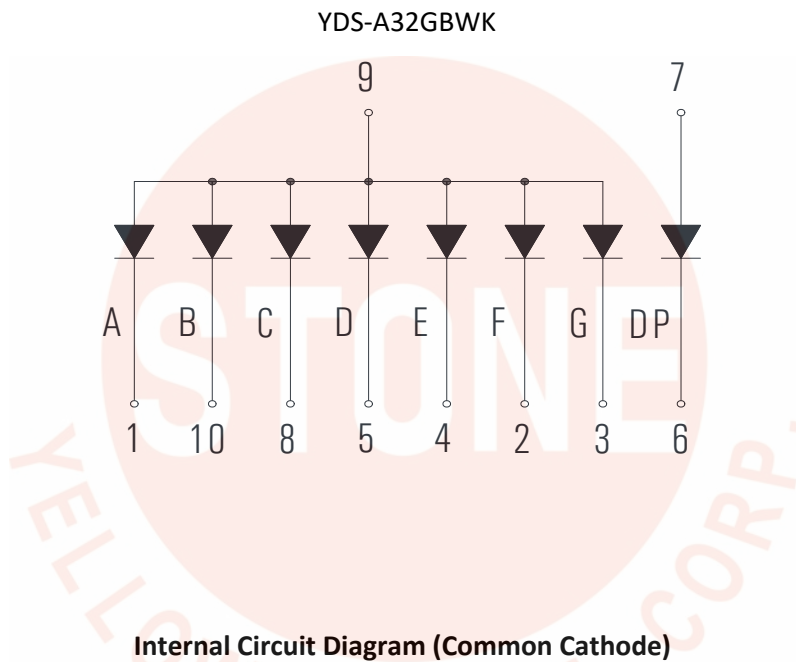


Notes:

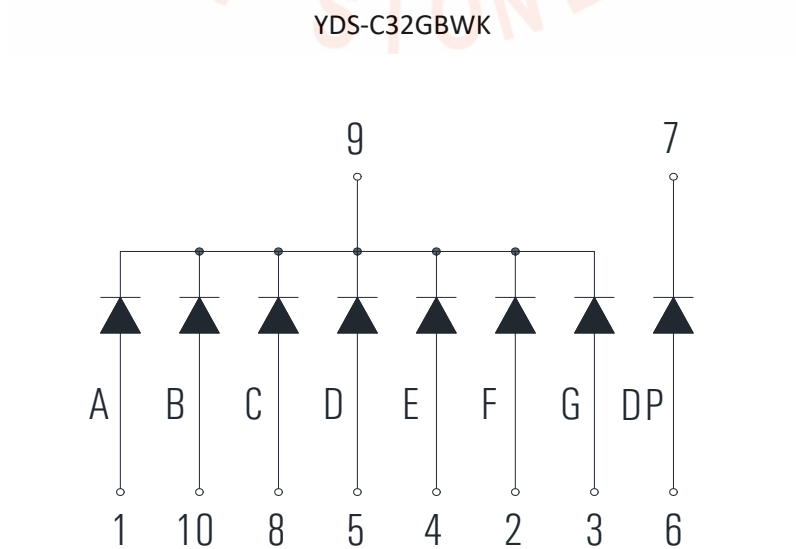
1. All dimensions are in millimeters (inches).
2. Tolerance is ± 0.25 mm (.010") unless otherwise noted.

Internal Circuit Diagram:

Internal Circuit Diagram (Common Anode)



Internal Circuit Diagram (Common Cathode)



Absolute Maximum Ratings at Ta=25°C

Parameters	Symbol	Max	Unit
Power Dissipation Per Segment	P _d	50	mW
Peak Forward Current Per Segment (1/10 Duty Cycle, 0.1ms Pulse Width)	I _{FP}	25	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

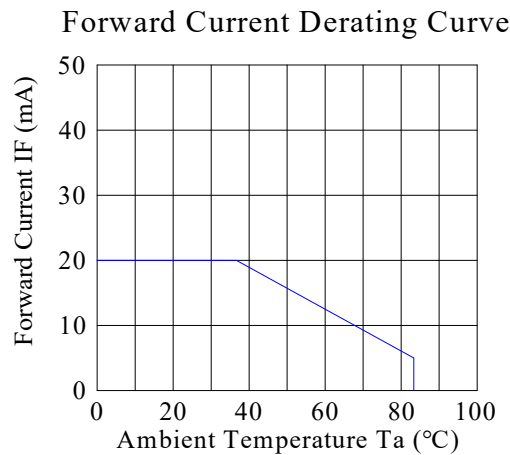
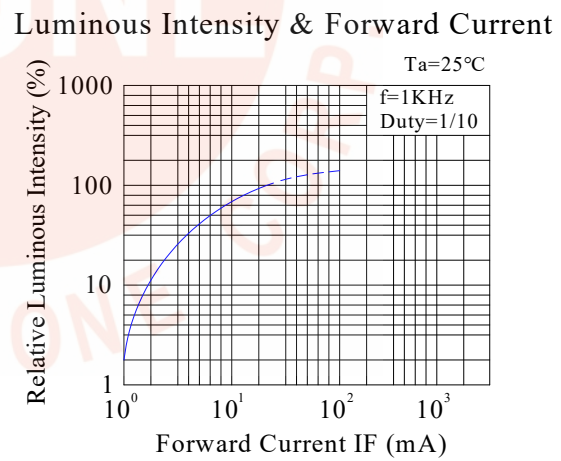
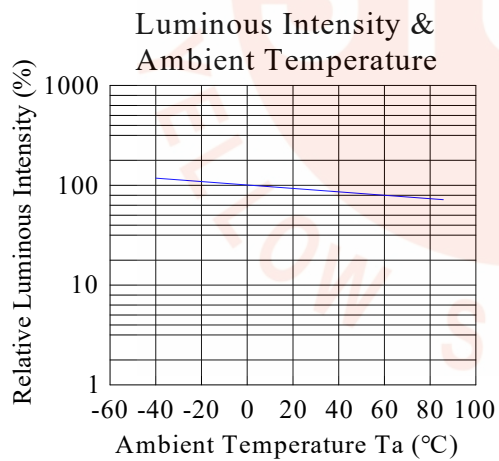
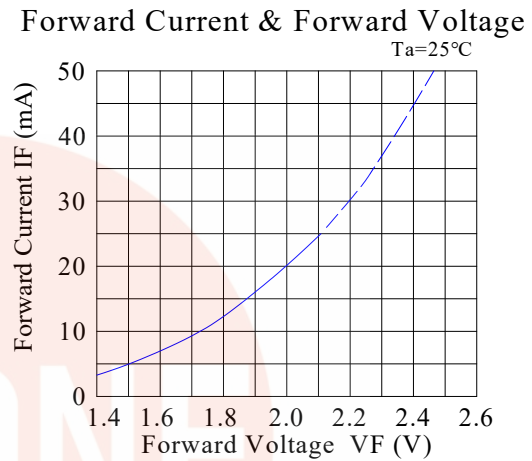
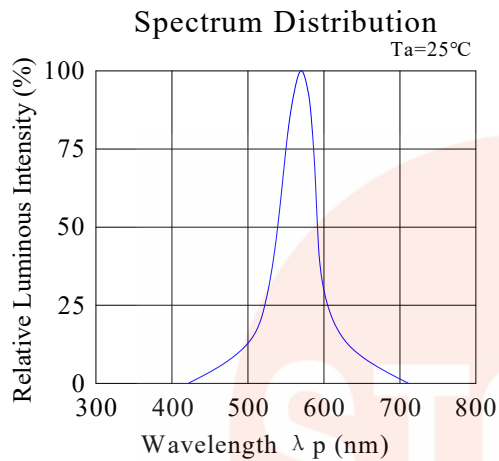
Parameters	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Average Luminous Intensity	I _v	2.5	5.0	---	mcd	IF=10mA (Note a)
		5.0	10.0	---	mcd	IF=20mA (Note a)
Luminous Intensity Matching Ratio	I _{v-m}	---	---	2:1		IF=10mA
Peak Emission Wavelength	λ _p	---	575	---	nm	IF=20mA
Dominant Wavelength	λ _d	---	572	---	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
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.



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





早安股份有限公司
YELLOW STONE CORP.

Packing & Label Specifications:

