



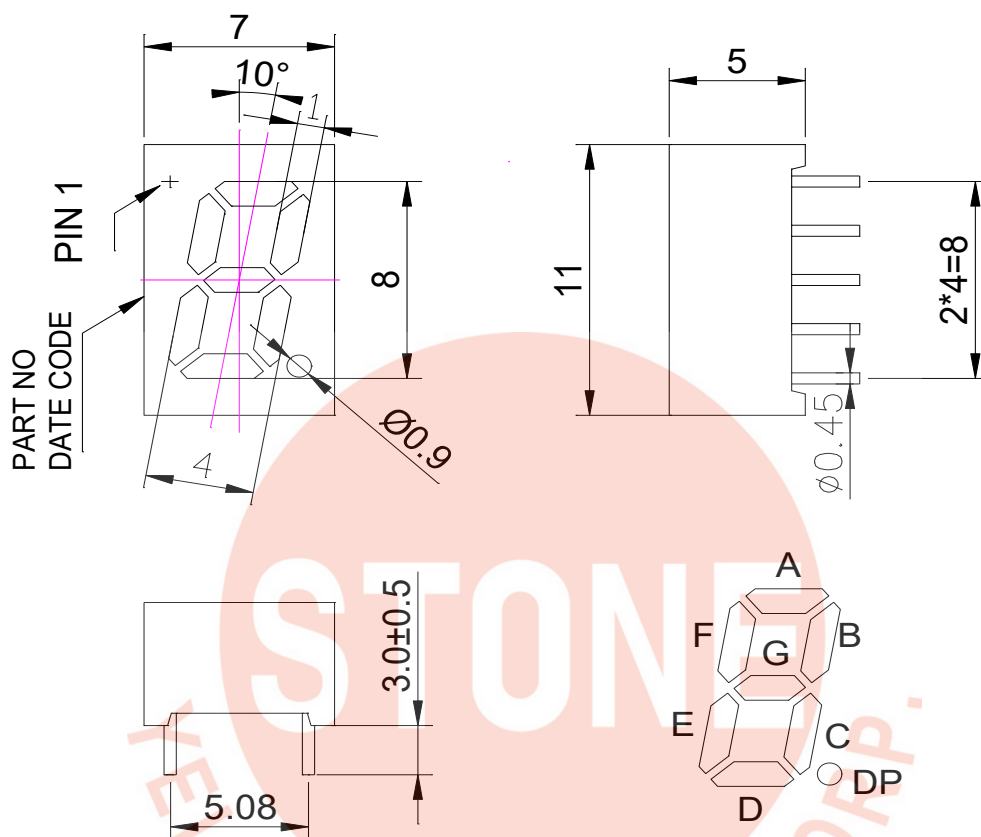
Seven Segment Display Data Sheet

Description

This YDS-3116AG-N is a 0.31 inch (8.0mm) digit height single digit seven-segment display. This device uses AlInGaP Green LED chips (AlInGaP epi on GaAs substrate), and has a black face and white segments.

Features

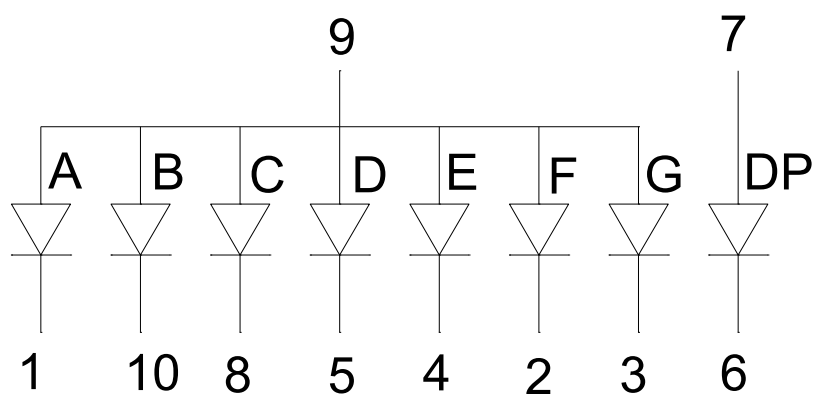
- 0.31-inch (8.0 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity



NOTES:

1. All dimensions are in millimeters. Tolerances are $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
2. Pin tip's shift tolerance is $\pm 0.4\text{ mm}$.

Internal Circuit Diagram



Absolute Maximum Rating ($T_a = 25^\circ\text{C}$)



Parameter	Max.	Unit
Power Dissipation Per Segment	60	mW
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	70	mA
Continuous Forward Current Per Segment	25	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35°C to +85°C	
Storage Temperature Range	-35°C to +85°C	
Soldering Conditions: 1/16 inch below seating plane for 3 seconds at 260°C		

This product should be operated in forward bias. If a reverse voltage is continuously applied to the product, such operation can cause migration resulting in LED damage.

Electrical / Optical Characteristics (Ta = 25°C)

PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	3.4	5.4		mcd	IF=10mA
Peak Emission Wavelength	λ_p		571		nm	IF=20mA
Spectral Line Half-Width	$\Delta \lambda$		15		nm	IF=20mA
Dominant Wavelength	λ_d		572		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	IR			10	uA	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

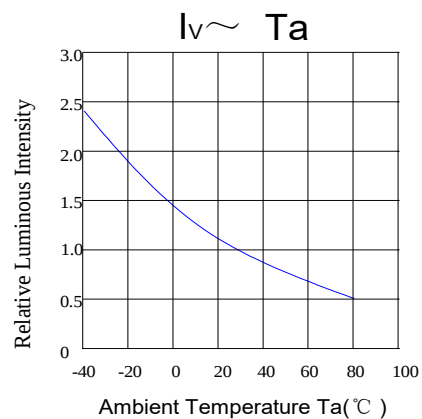
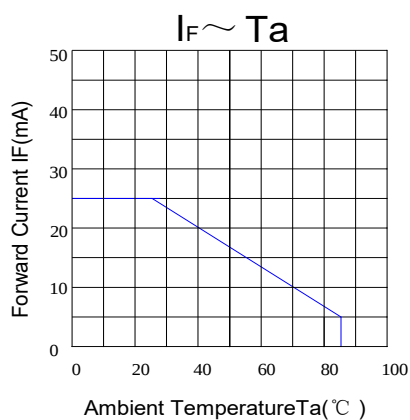
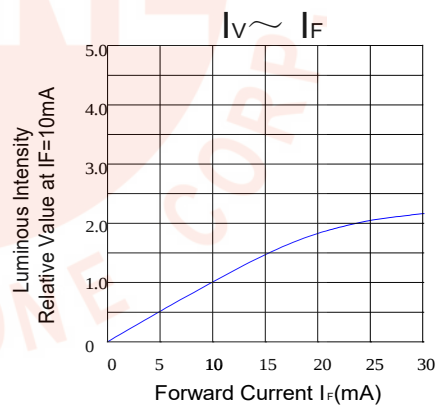
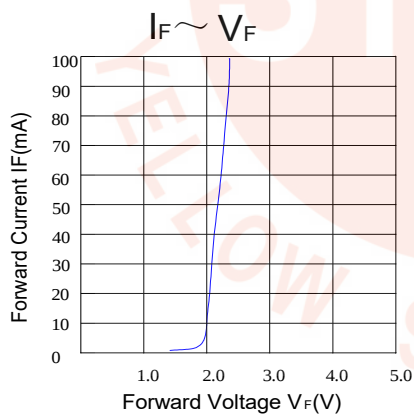
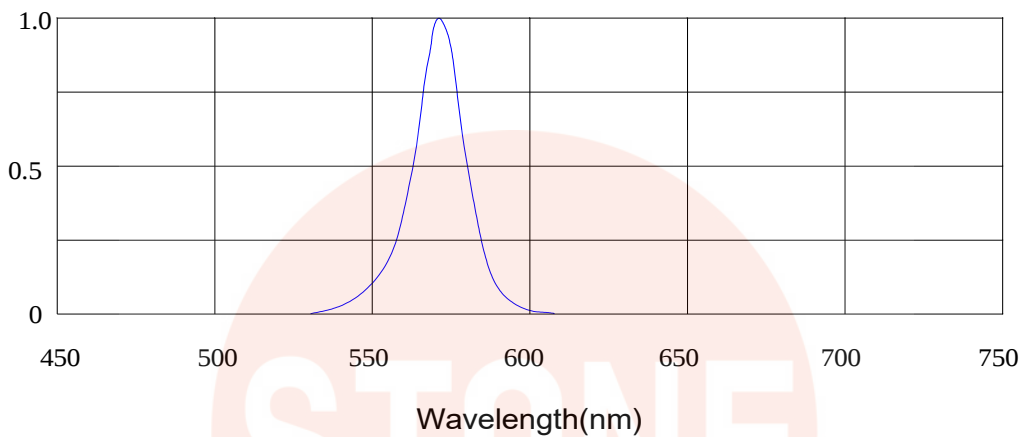
Note:1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

2.Wavelength: +/-1nm Luminous Intensity: +/-15% Forward Voltage: +/-0.1V

Typical Electrical / Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

RELATIVE INTENSITY vs WAVELENGTH





早安股份有限公司
YELLOW STONE CORP.

Package Flow

