

Seven Segment Display Data Sheet

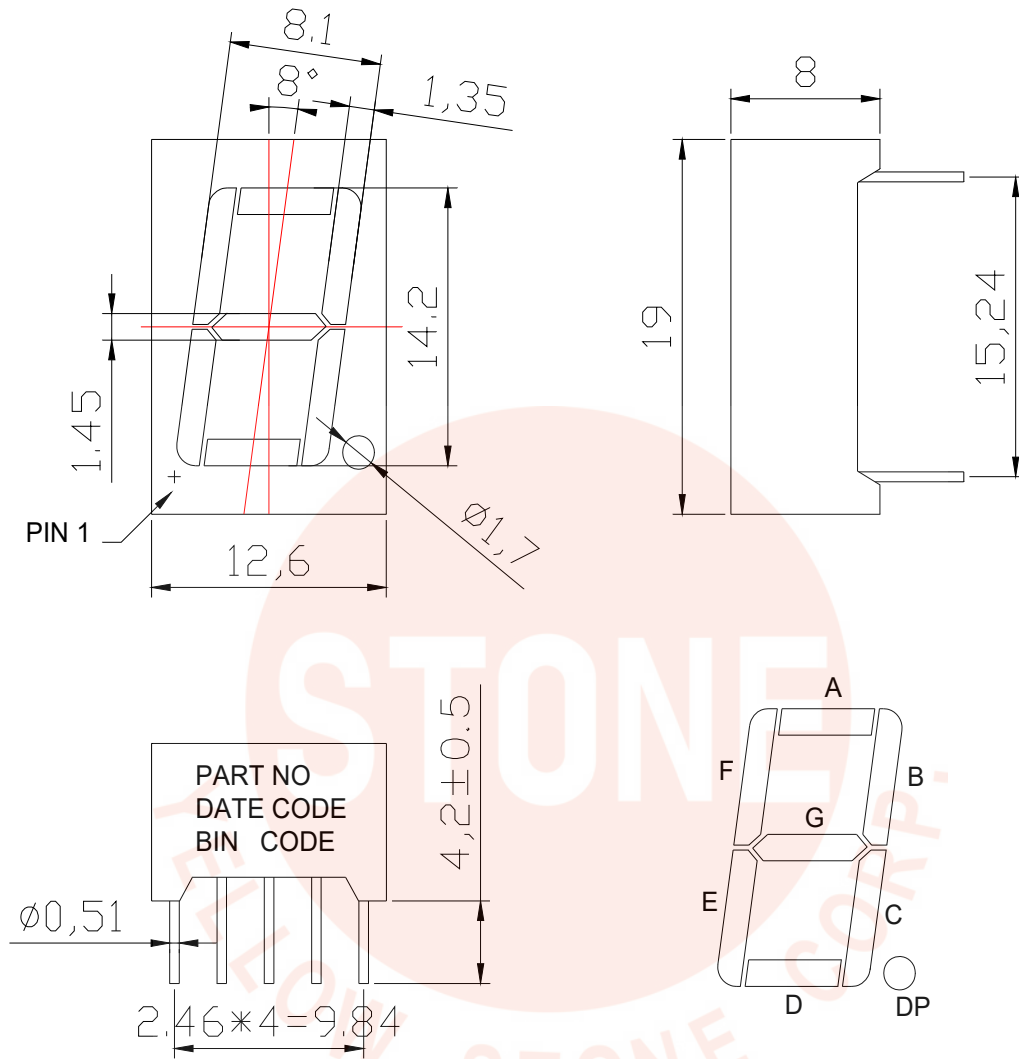
Description

This YDS-51618CG-N is a 0.56 inch (14.2mm) digit height single digit seven-segment display. This device uses Green LED chips, which are made from AlInGaP on a transparent GaAs substrate, and has a black face and white segments.

Features

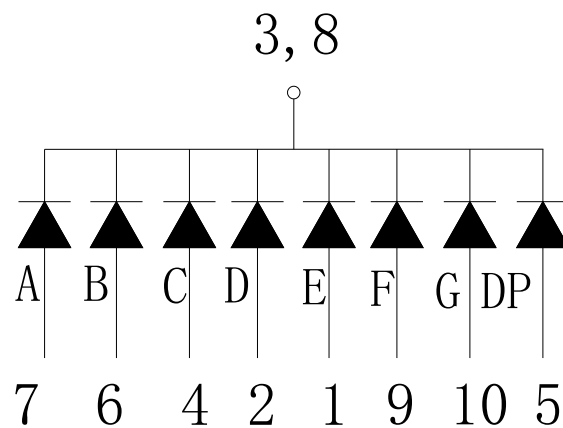
- 0.56-inch (14.2mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



1. All dimensions are in millimeters. Tolerances are 0.25 mm (0.01") unless otherwise noted.
2. Pin tip's shift tolerance is ± 0.4 mm

Internal Circuit Diagram



Absolute Maximum Rating (Ta = 25°C)

PARAMETER	Yellow green	UNIT
Power Dissipation Per Segment	70	mW
Peak Froward Current	60	mA
Continuous Forward Current Per Segment	20	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:Max 260 ⁰ C for max 3sec at 1.6mm below seating plane.		

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	I _v	5	10		mcd	IF=10mA
Peak Emission Wavelength	λ _p		572		nm	IF=20mA
Spectral Line Half-Width	Δλ		15		nm	IF=20mA
Dominant Wavelength	λ _d		571		nm	IF=20mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	I _R			100	μA	VR=5V
Luminous Intensity Matching Ratio	I _v -m			2:1		IF=10mA

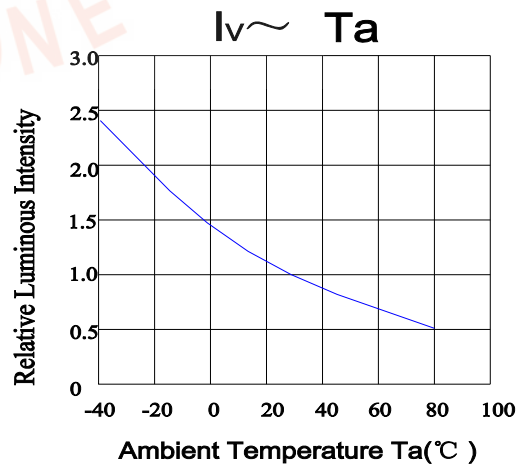
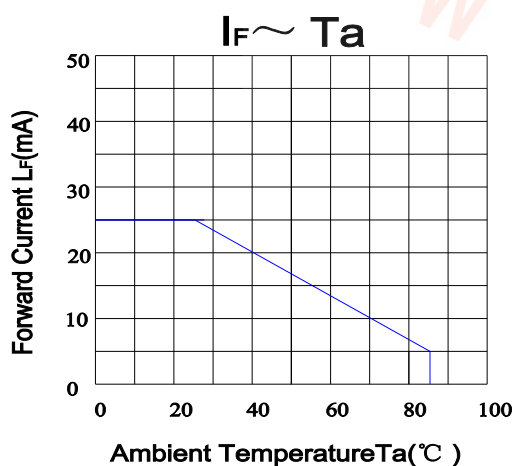
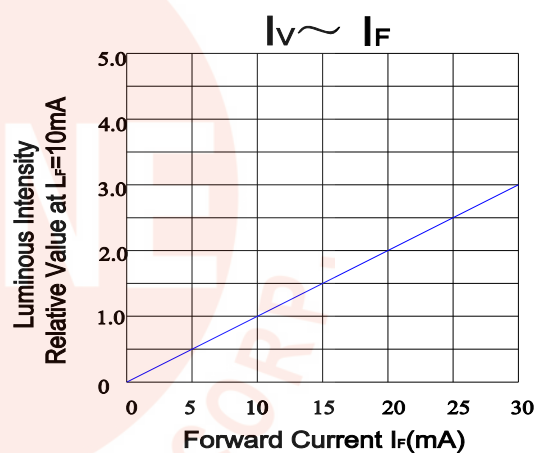
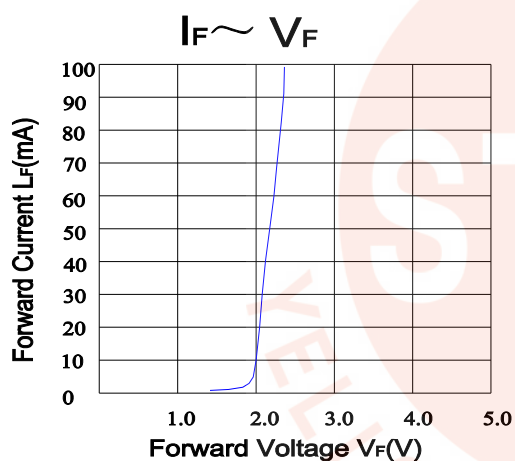
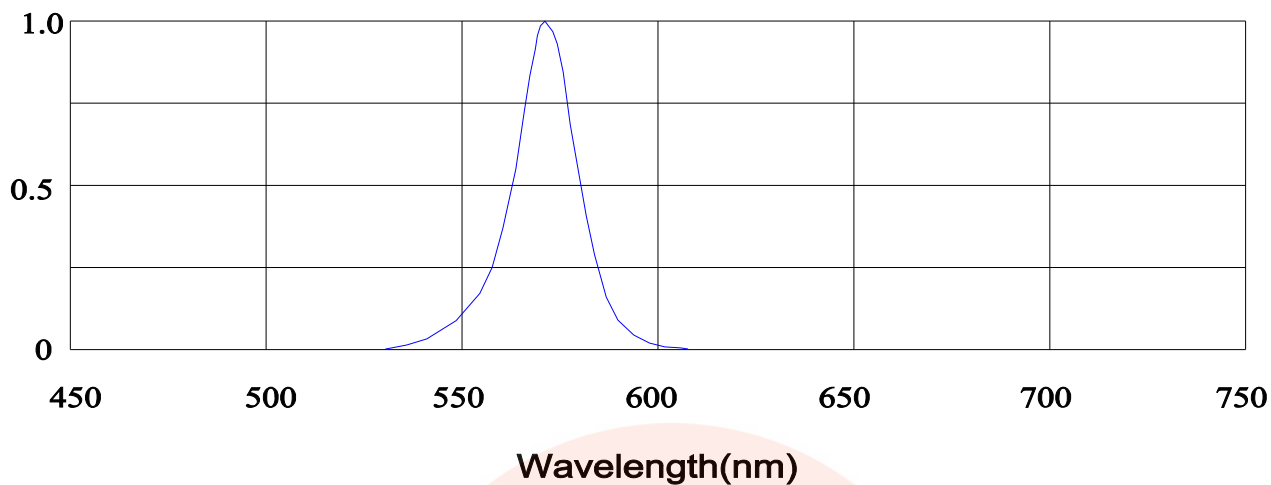
Note:1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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

