



Seven Segment Display Data Sheet

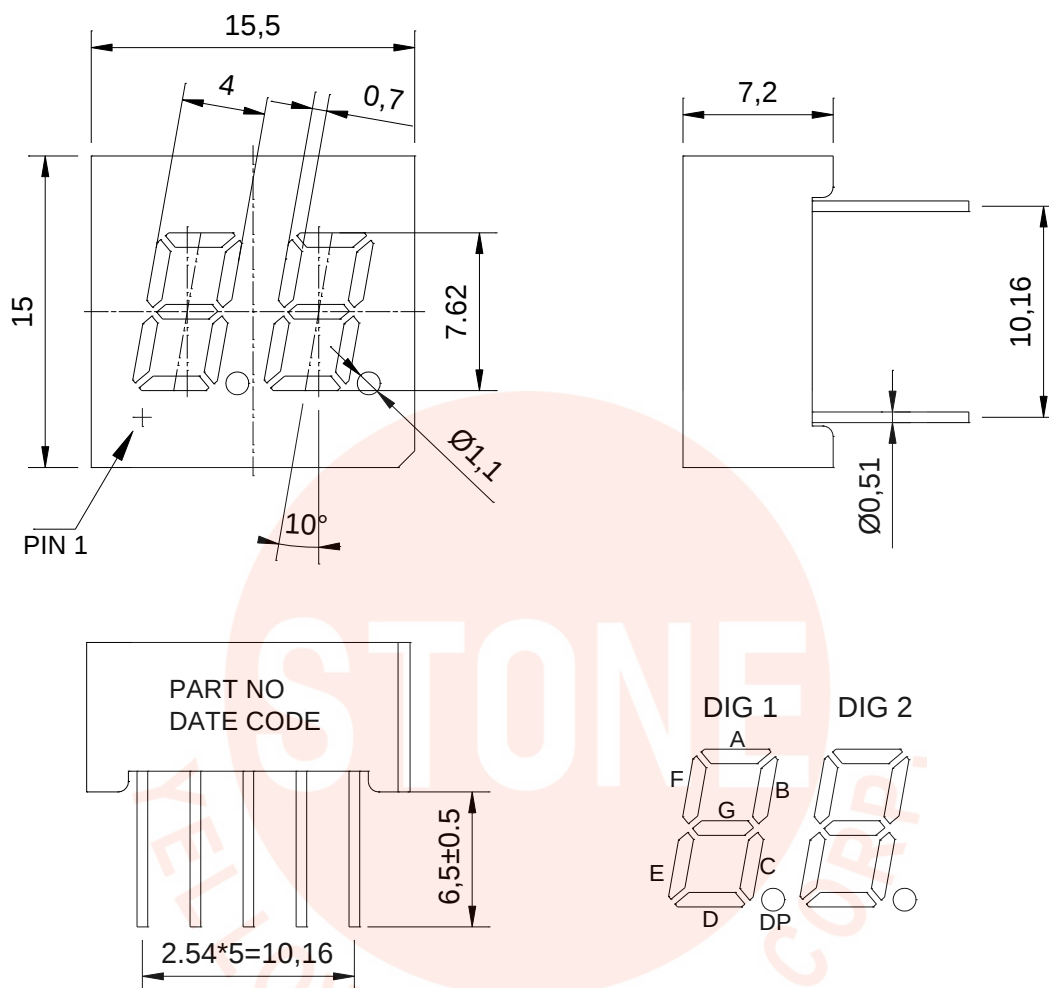
Description

This YDD-32020CR-N is a 0.30 inch (7.62mm) digit height dual digit seven-segment display. This device uses AlInGaP RED LED chips(AlInGaP on a non-transparent substrate).The display has a black face and white segments.

Features

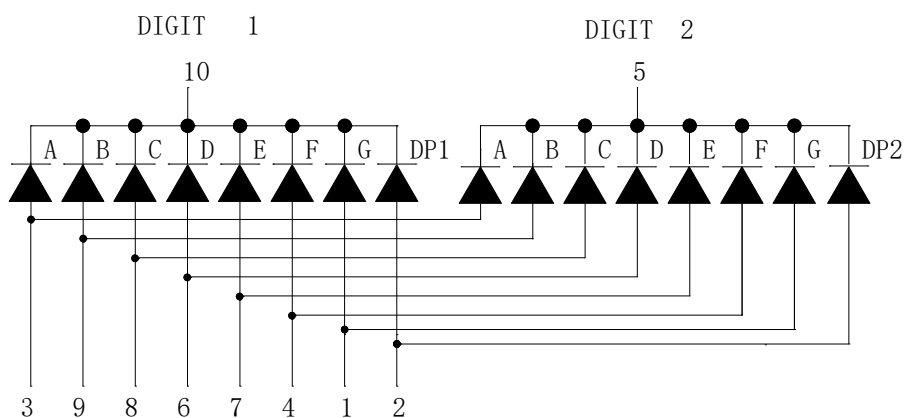
- 0.30-inch (7.62 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



All dimensions are in millimeters. Tolerances are 0.25 mm (0.01") unless otherwise noted.

Internal Circuit Diagram



Absolute Maximum Rating (Ta = 25°C)

PARAMETER	Maximum	UNIT
Power Dissipation Per Segment	70	mW
Peak Froward Current	90	mA
Continuous Forward Current Per Segment	25	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40 ⁰ C to +80 ⁰ C	
Storage Temperature Range	-40 ⁰ C to +80 ⁰ 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)

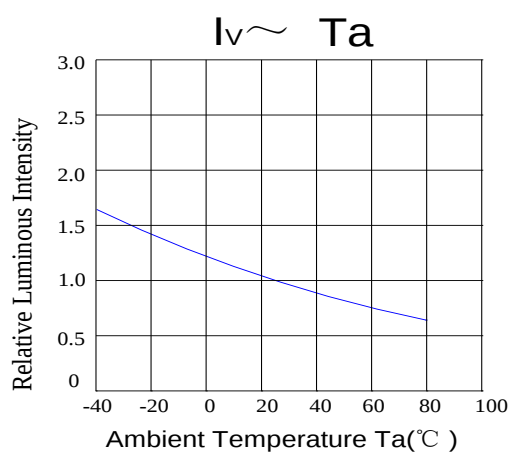
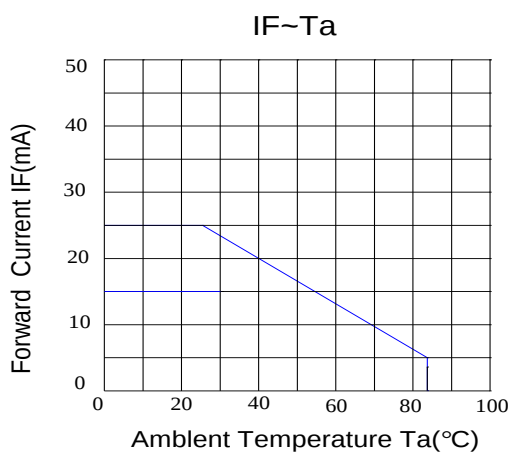
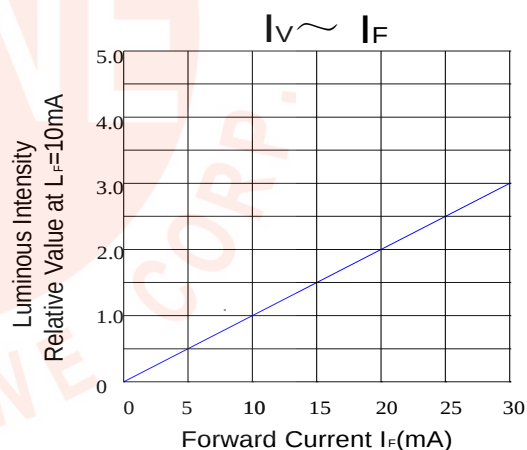
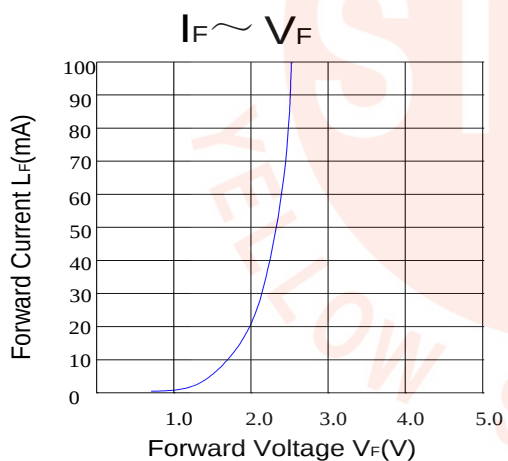
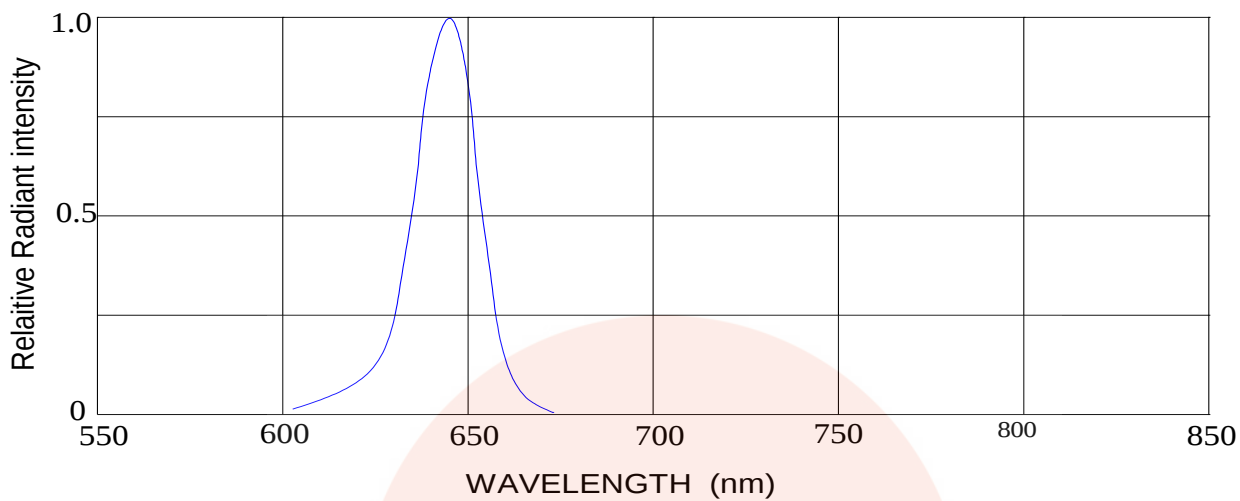
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	I _v	3.4	5.4		mcd	I _F =10mA
Peak Emission Wavelength	λ _p		639		nm	I _F =20mA
Spectral Line Half-Width	Δλ		20		nm	I _F =20mA
Dominant Wavelength	λ _d		631		nm	I _F =20mA
Forward Voltage Per Dot	V _F		2.0	2.6	V	I _F =20mA
Reverse Current Per Dot	I _R			100	μA	V _R =5V
Luminous Intensity Matching Ratio	I _v -m			2:1		I _F =10mA



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

