



Seven Segment Display Data Sheet

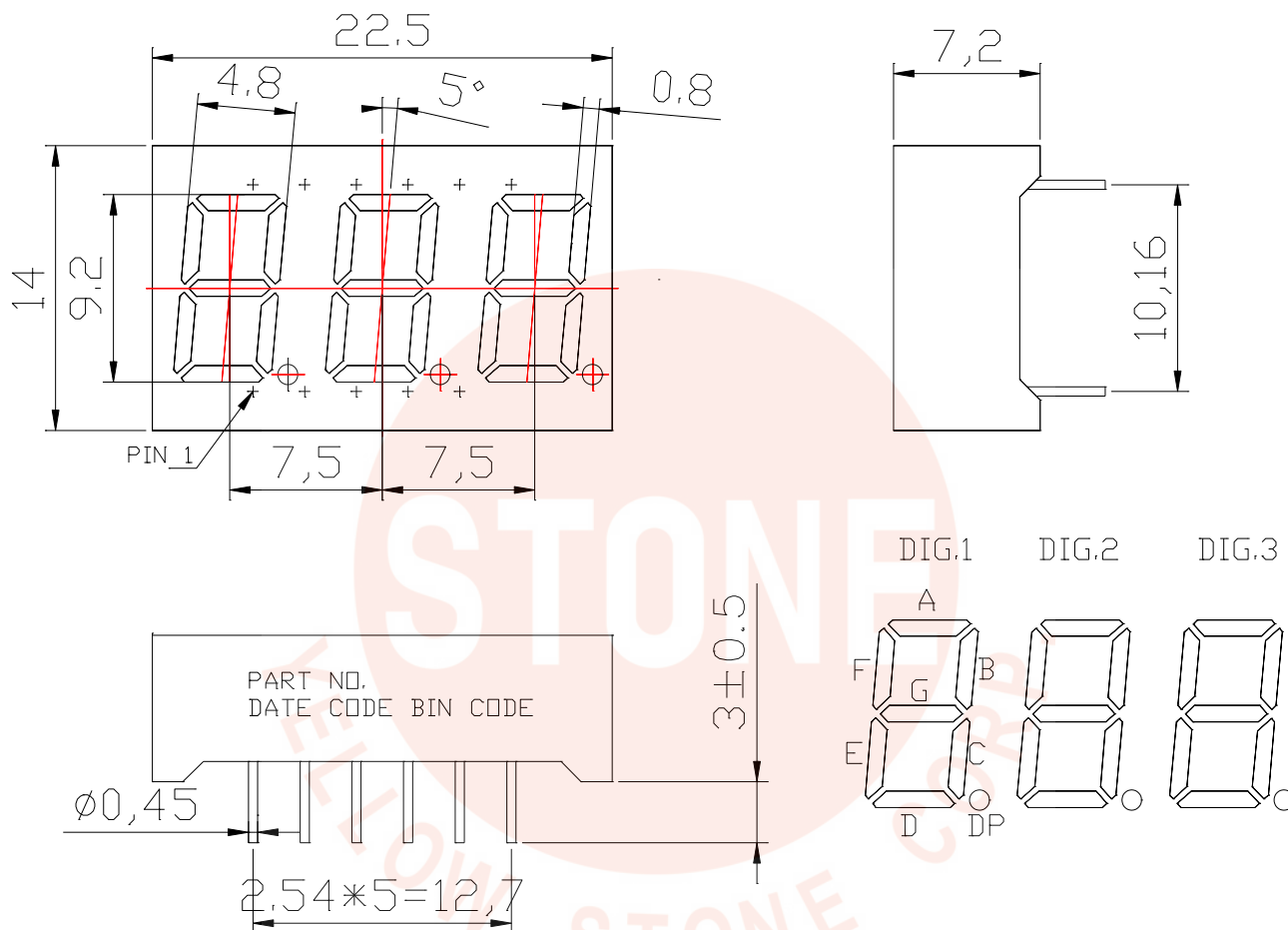
Description

This YDT-33615CR-N is a 0.36inch (9.2mm) digit height triple digit seven-segment display. This device uses AlInGaP Red LED chips, which are made from AlInGaP on GaAs substrate, and has black face and white segments.

Features

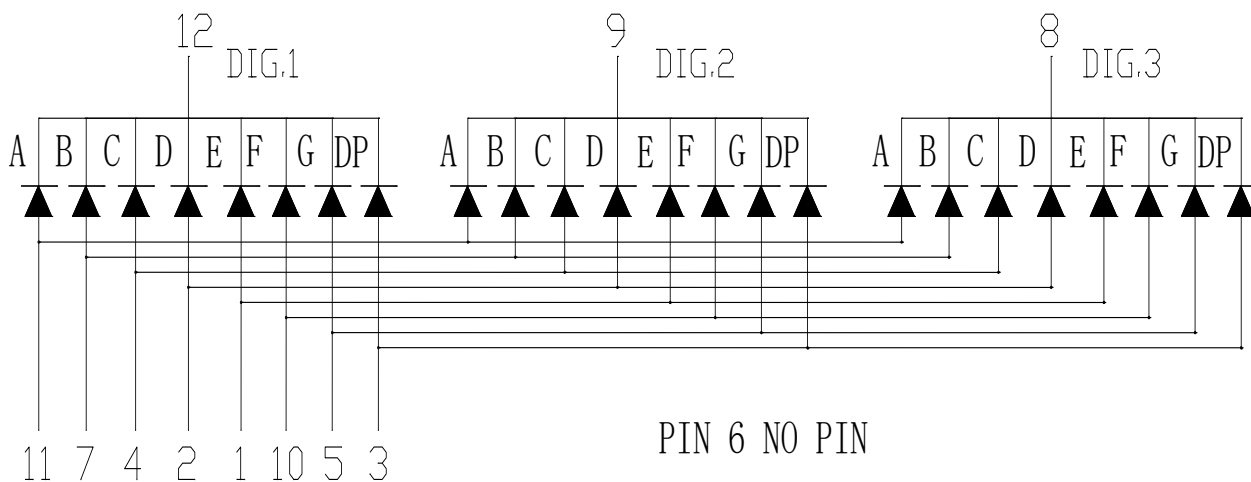
- 0.36-inch (9.2 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

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 RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment	90	mA
Continuous Forward Current Per Segment	25	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-35 ⁰ C to +85 ⁰ C	
Storage Temperature Range	-35 ⁰ C to +85 ⁰ C	
Soldering Conditions:1/16 inch below seating plane for 3 seconds at 260 ⁰ 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)

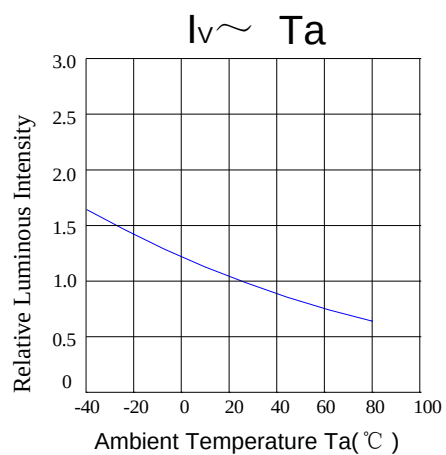
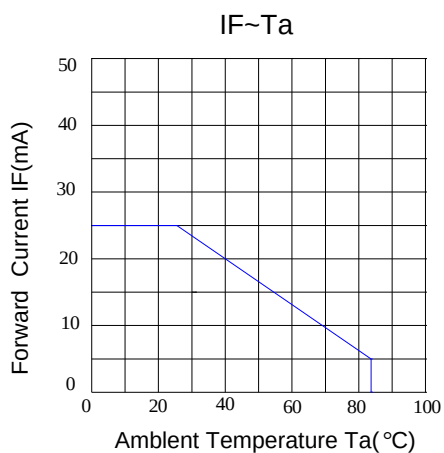
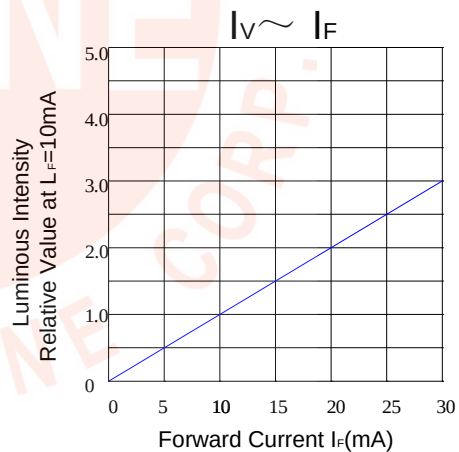
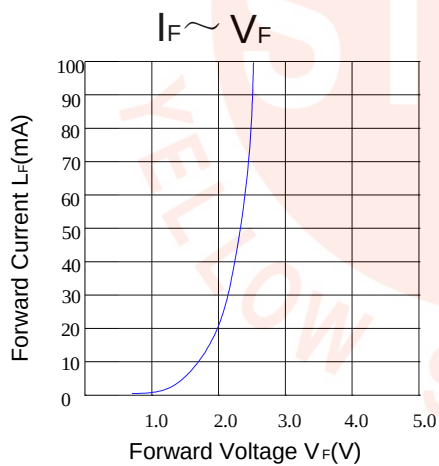
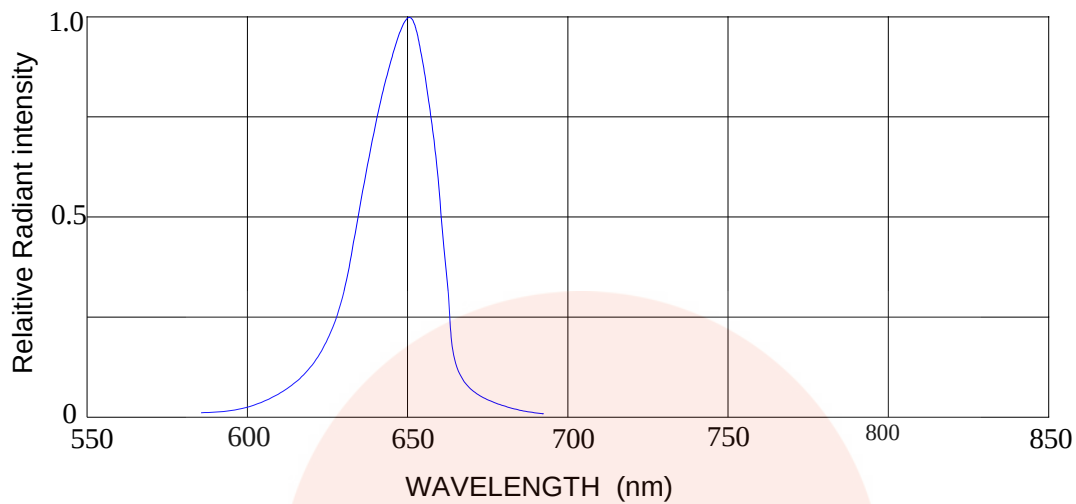
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	3	7		mcd	IF=10mA
Peak Emission Wavelength	λ_p		650		nm	IF=10mA
Spectral Line Half-Width	$\Delta\lambda$		20		nm	IF=10mA
Dominant Wavelength	λ_d		639		nm	IF=10mA
Forward Voltage Per Segment	V _F		2.0	2.6	V	IF=10mA
Reverse Current Per Segment	I _R			10	μA	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA



Typical Electrical / Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

RELATIVE INTENSITY VS WAVELENGTH



Package Flow

