YDS-21811CR-N

Seven Segment Display Data Sheet

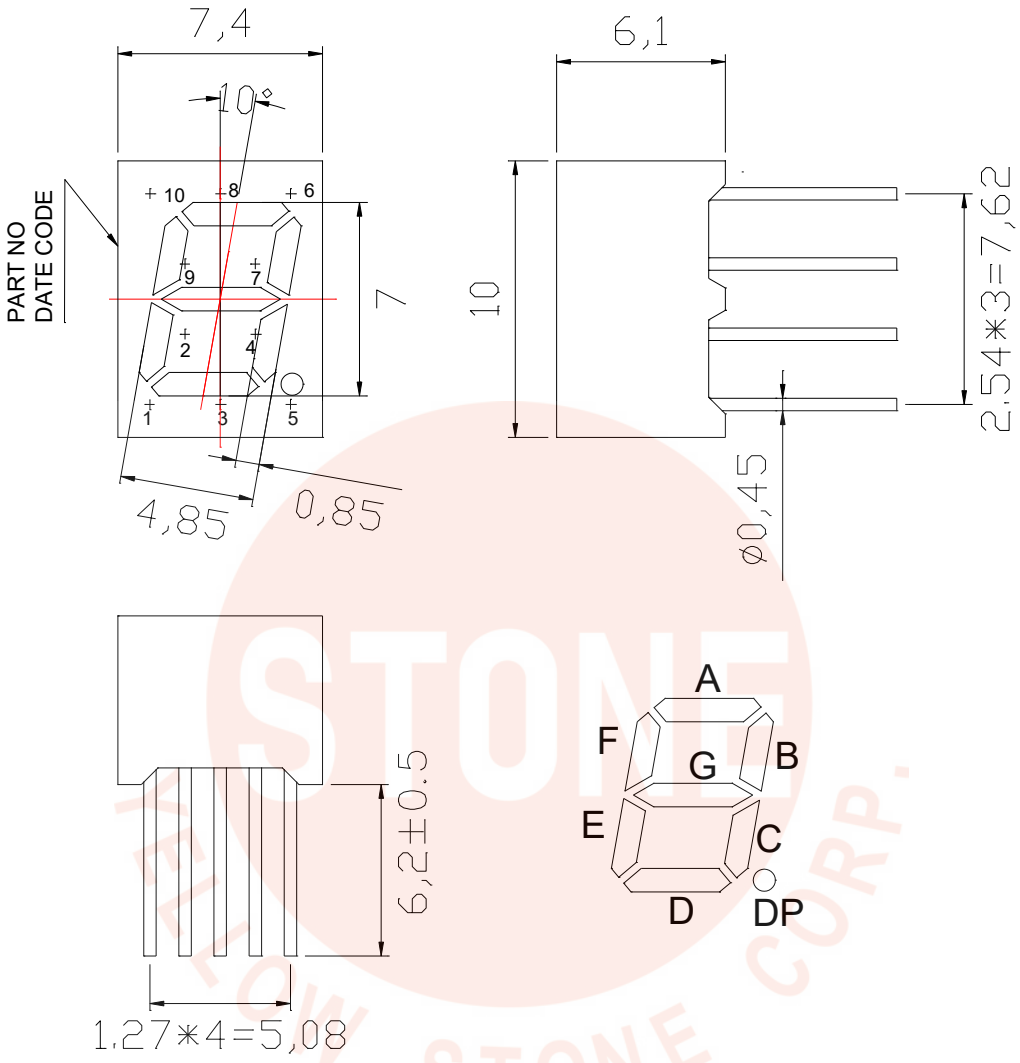
Description

This YDS-21811CR-N is a 0.28 inch (7 mm)digit height single digit display . This device uses AlInGaP Red chips, which are made from AlInGaP on a non-transparent GaAs substrate, and has a black face and white segments.

Features

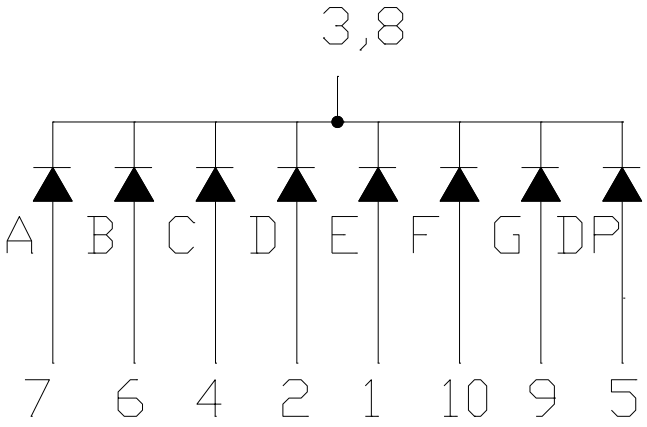
- 0.28 inch (7 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



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

Internal Circuit Diagrams



Absolute Maximum Rating (Ta = 25°C)

Parameter	Maximum	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°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)

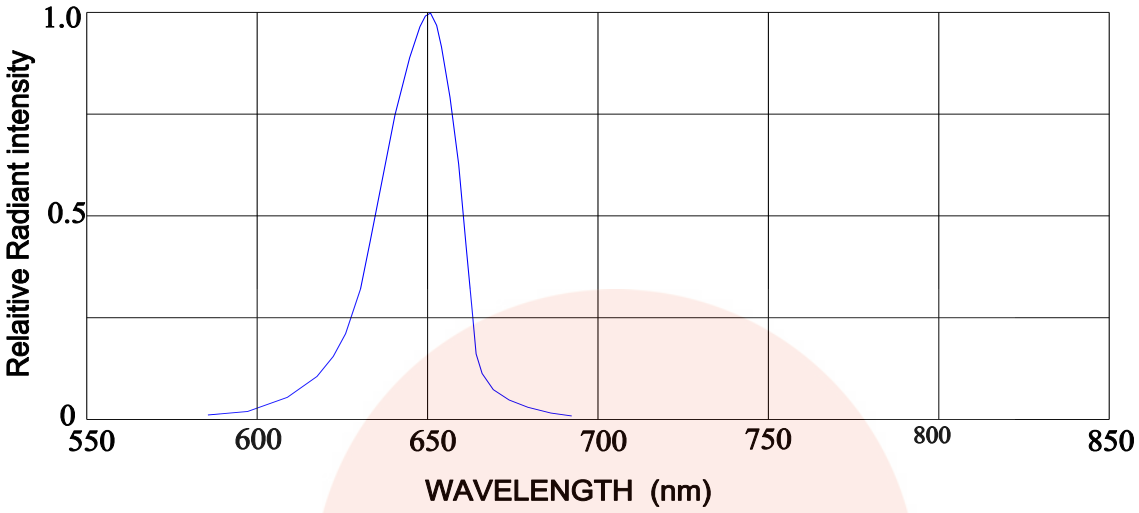
Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Luminous Intensity	Iv	6	13		mcd	IF=10mA
Peak Emission Wavelength	λp		650		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		639		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	IR			100	μA	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

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

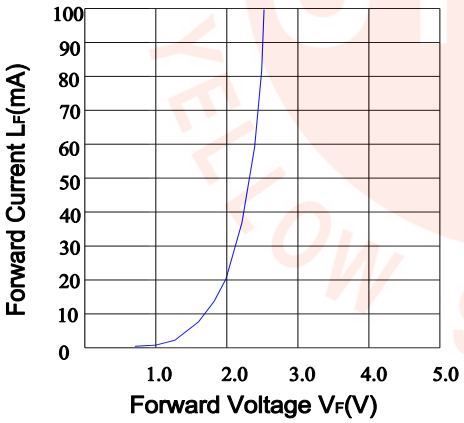
Typical Electrical / Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

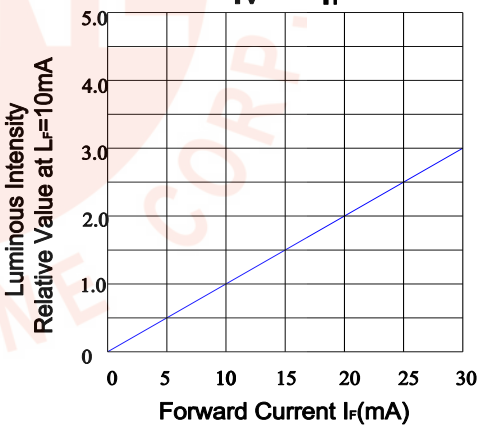
RELATIVE INTENTY VS WAVELENGTH



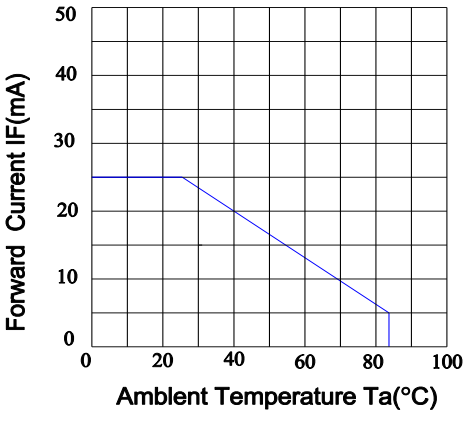
IF~ VF



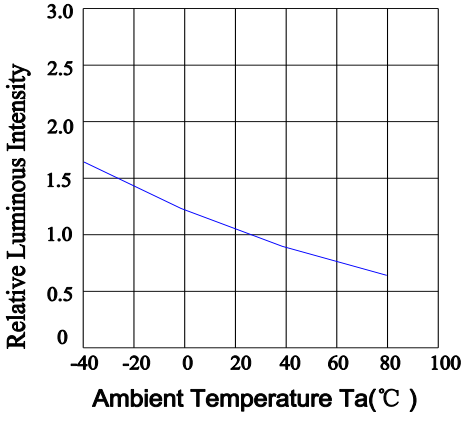
Iv~ IF



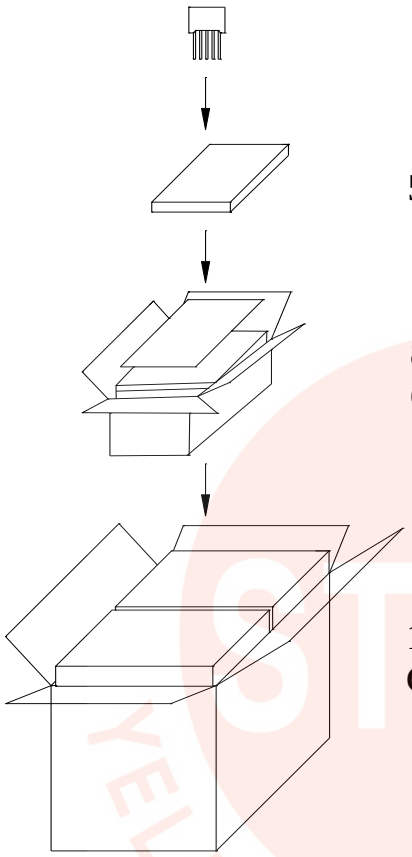
IF~Ta



Iv~ Ta



Package Flow



594PCS per PLATE

8316PCS per INNER CARTON

16632PCS per OUTER CARTON