

Seven Segment Display Data Sheet

Description

This YDD-22827AB-N is a 0.28 inch (7 mm) digit height dual digit display .

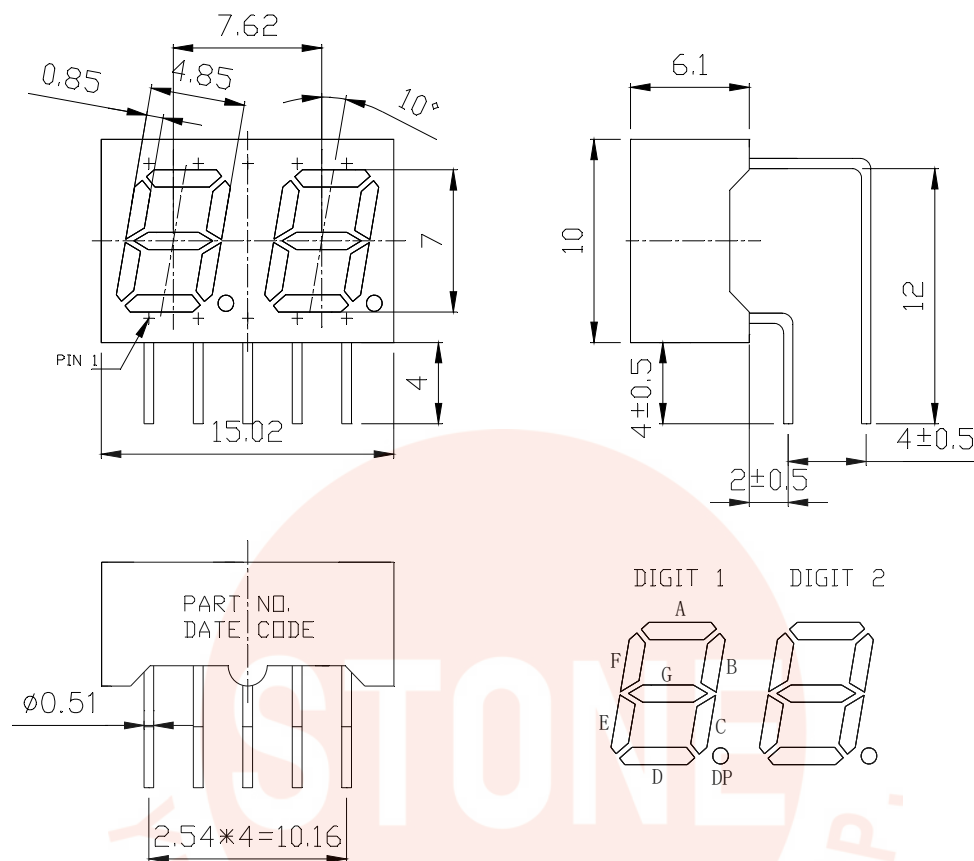
This device uses InGaN Blue chips (InGaN epi on a Sapphire substrate)

The display has black face and white segments.

Features

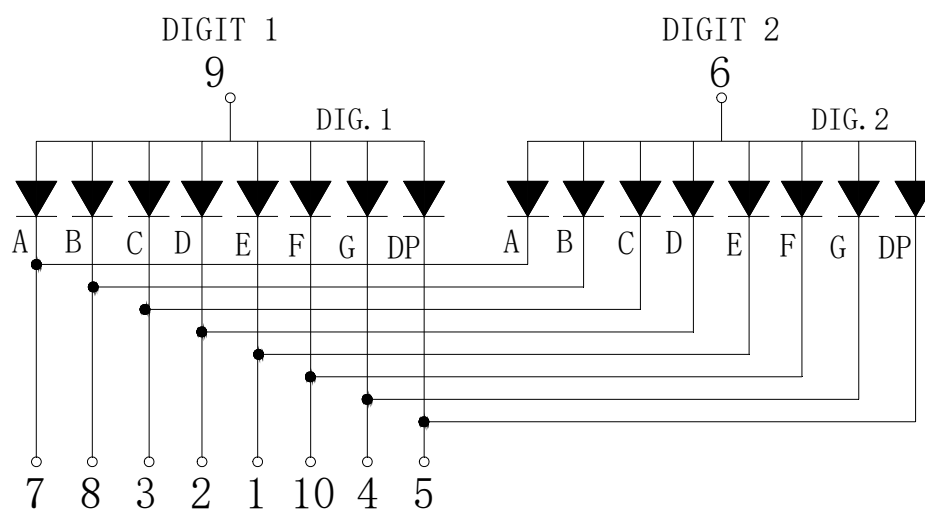
- 0.28 inch (7 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



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

Internal Circuit Diagrams





Absolute Maximum Rating (Ta = 25°C)

PARAMETER	Max.	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	100	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	-40 ⁰ C to +100 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	13.7	21.8		mcd	IF=10mA
Peak Emission Wavelength	λ_p		468		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		25		nm	IF=20mA
Dominant Wavelength	λ_d		470		nm	IF=20mA
Forward Voltage Per Segment	VF		3.3	3.8	V	IF=20mA
Reverse Current Per Segment	IR			10	μ A	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

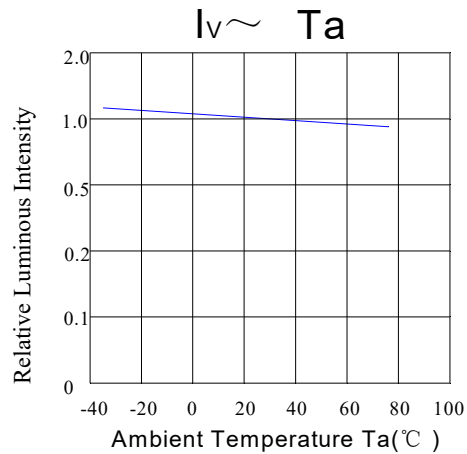
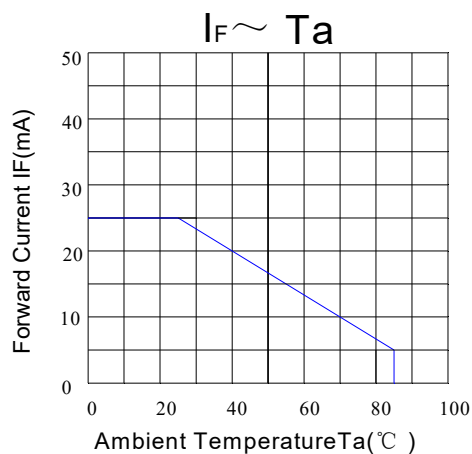
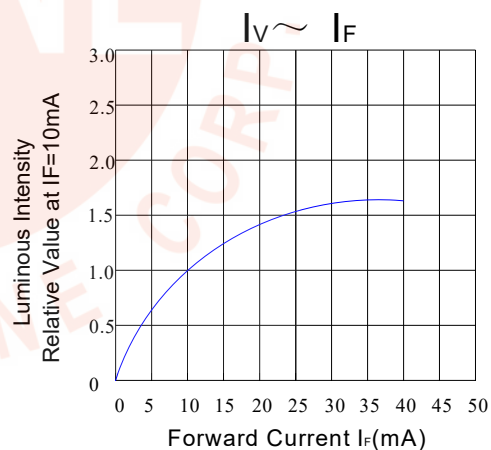
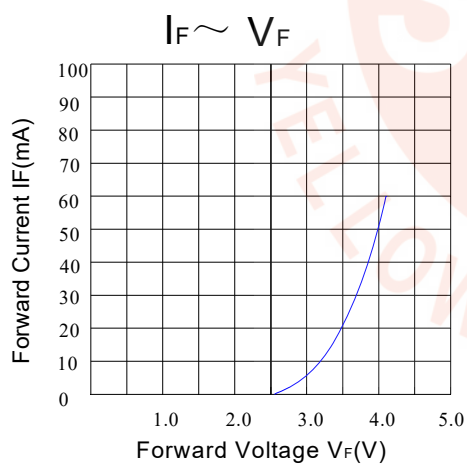
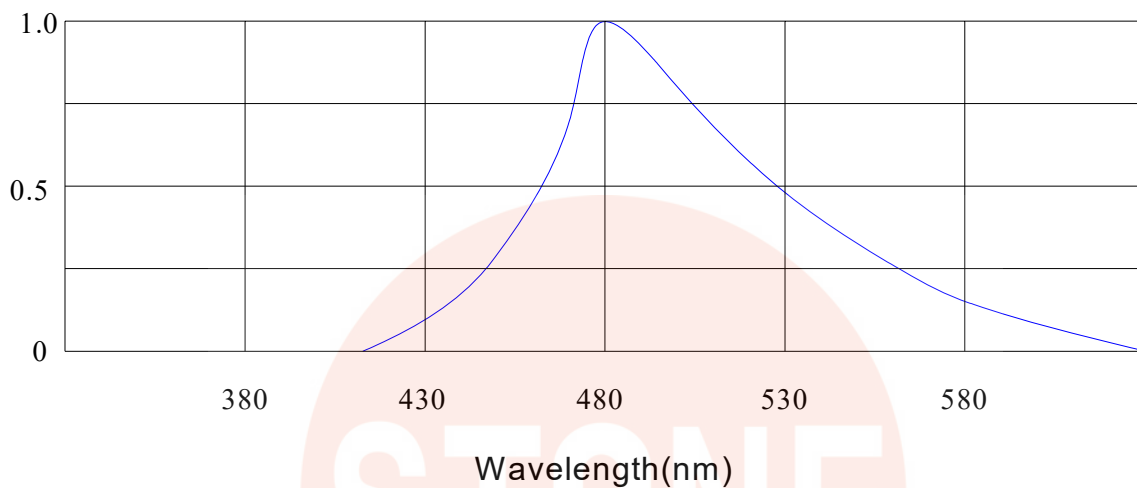
Note: 1. Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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

Typical Electrical / Optical Characteristic Curves

(25°C Ambient Temperature Unless Otherwise Noted)

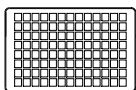
RELATIVE INTENSITY vs WAVELENGTH



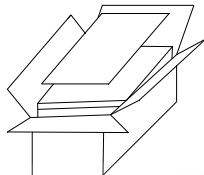


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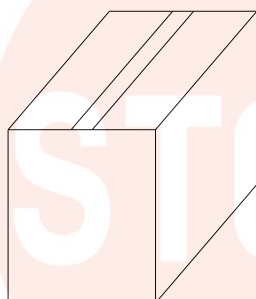
Package Flow



104PCS per TRAY



1664PCS per INNER CARTON



3328PCS per OUTER CARTON

