



Seven Segment Display Data Sheet

Description

The YDT-53628AB-N is a 0.56inch (14.2mm) digit height triple digit seven-segment display. This device utilizes Blue LED chips ,which are made from InGaP on atransparent SiC substrate, The display has a Black face and White segments.

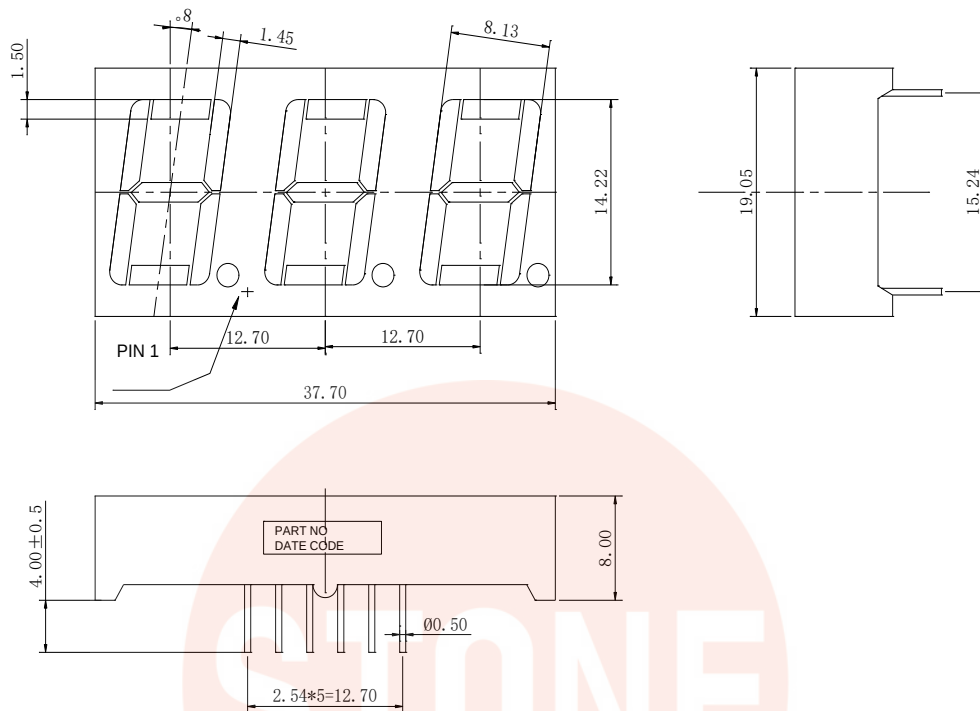
0.56 inch (14.2mm) digit height

Continuous uniform segments

Low power requirement

- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

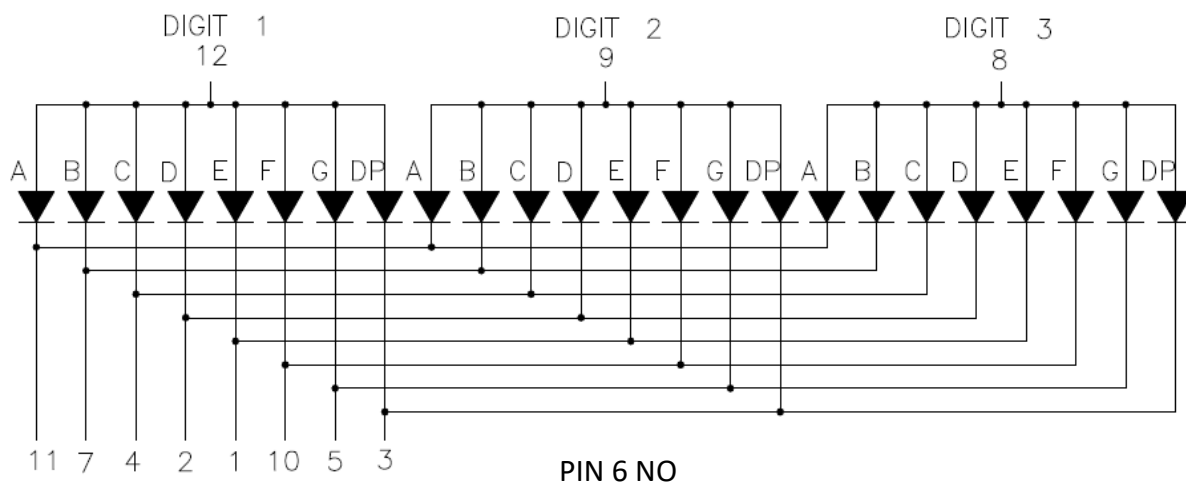
Package Dimensions



Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.30\text{mm}(.012")$ unless otherwise noted.
3. Protruded resin under flange is $1.0\text{mm}(.04")$ max.
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.

Internal Circuit Diagram





Absolute Maximum Rating (Ta = 25°C)

Parameter	Maximum	Unit
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment	100	mA
Continuous Forward Current Per Segment	20	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40°C to +80°C	
Storage Temperature Range	-40°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.

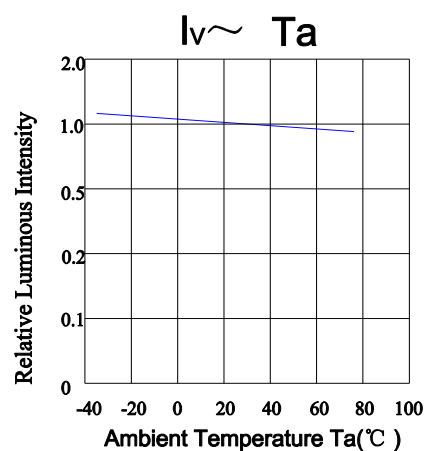
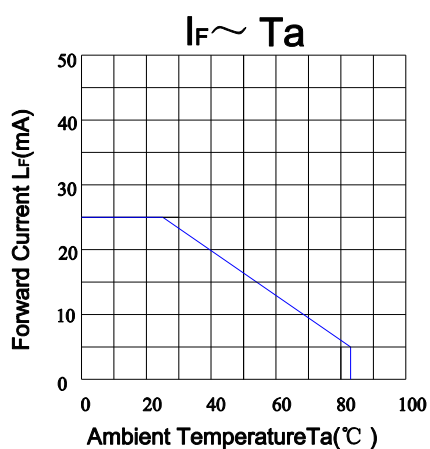
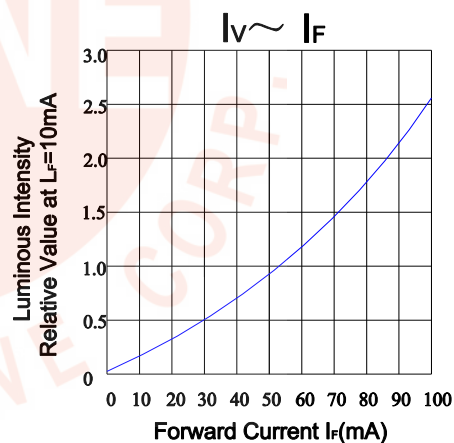
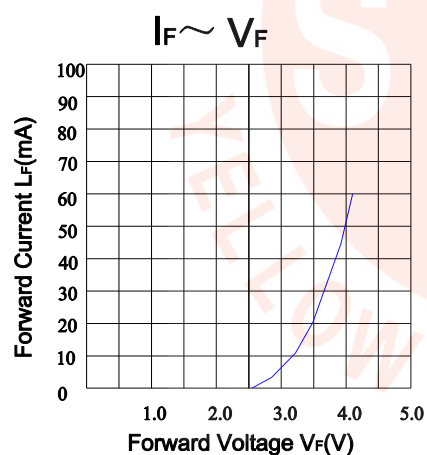
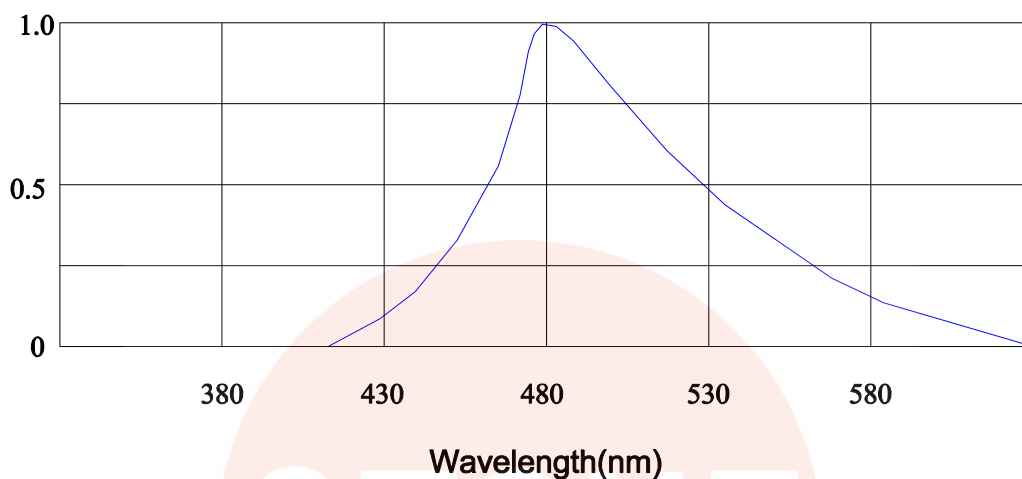
Electrical / Optical Characteristics (Ta = 25°C)

Parameter	Symbol	Min.	Typ.	Max.	Unit	Test Condition
Average Luminous Intensity	Iv	21	55		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	4.0	V	IF=20mA
Reverse Current Per Segment	IR			100	μ A	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

