Seven Segment Display Data Sheet

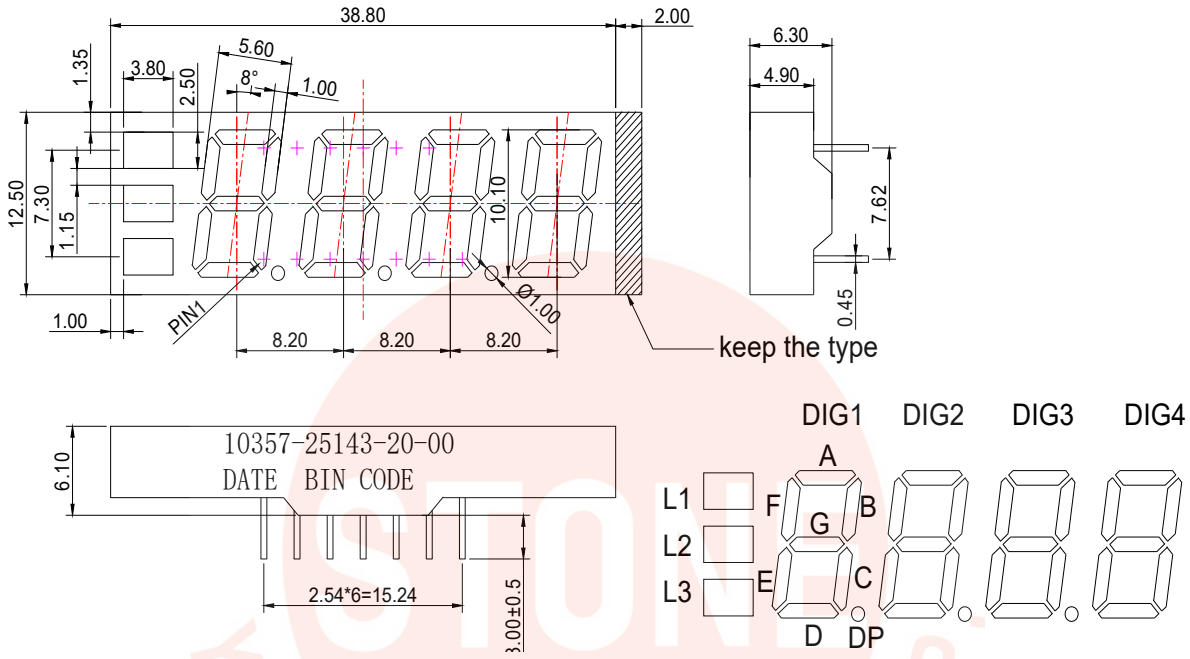
Description

This YDQ-44023AR-N is a 0.4 inch (10.1mm) digit height quadruple digit seven-segment display. This device uses AlInGaP Red LED chips, which are made from AlInGaP on GaAs substrate, and has black face and red segments,keep the type.

Features

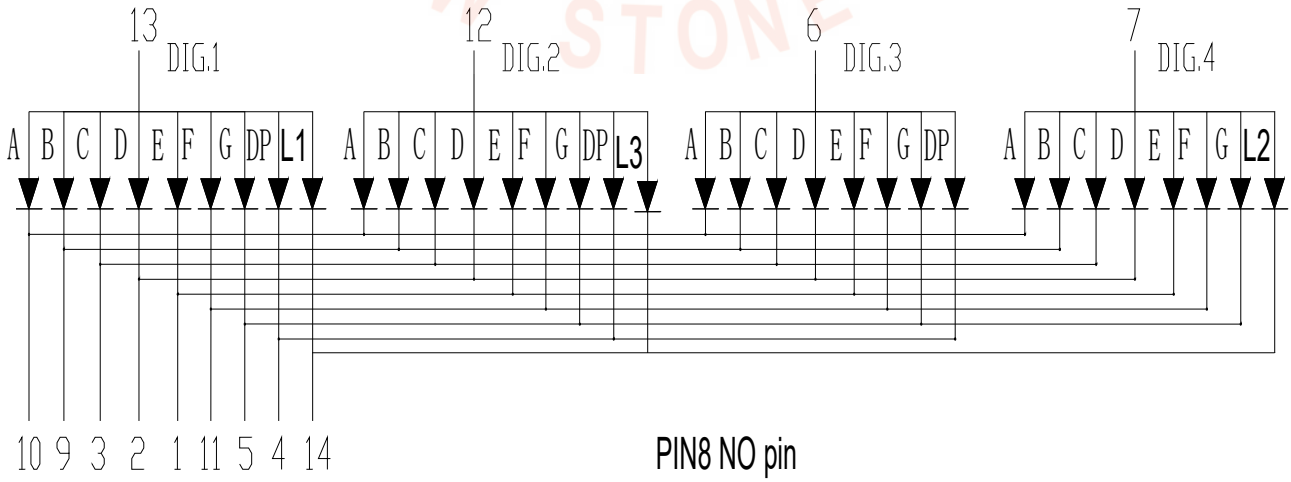
- 0.4-inch (10.1 mm) digit height
- Continuous uniform segments
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



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

Internal Circuit Diagram



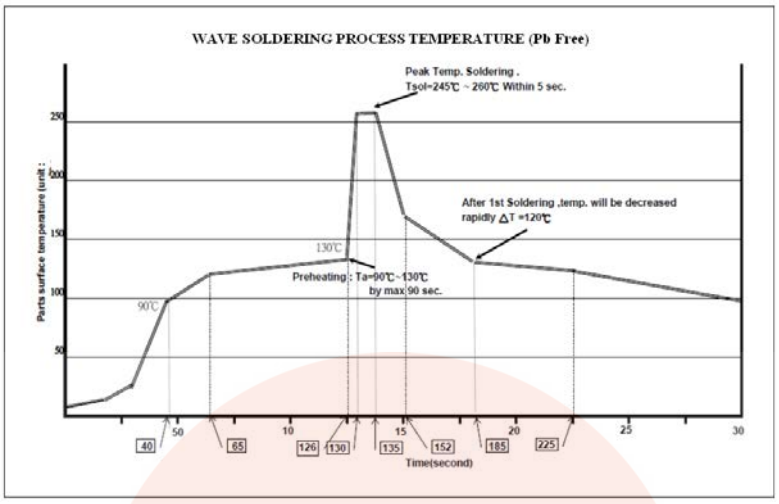
Absolute Maximum Rating (Ta = 25°C)

PARAMETER	MAXIMUM RATING	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	90	mA
Continuous Forward Current Per Segment	25	mA
Reverse Voltage Per Segment	5	V
Operating Temperature Range	-40^{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℃		

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.

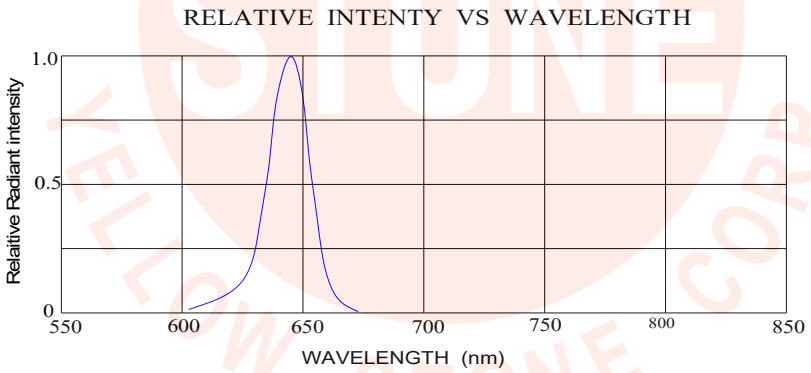
Electrical / Optical Characteristics (Ta = 25°C)

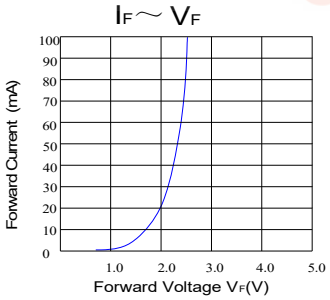
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	12	17		mcd	IF=10mA
Peak Emission Wavelength	λp		639		nm	IF=20mA
Spectral Line Half-Width	Δλ		20		nm	IF=20mA
Dominant Wavelength	λd		637		nm	IF=20mA
Forward Voltage Per Segment	V_F		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	I_R			10	μA	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

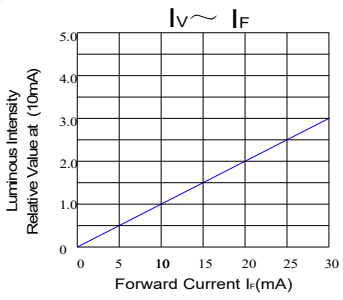


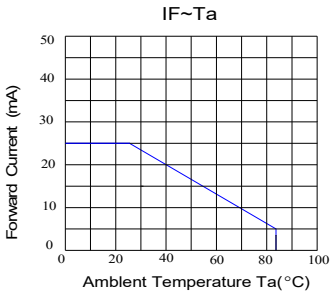
Typical Electrical / Optical Characteristic Curves

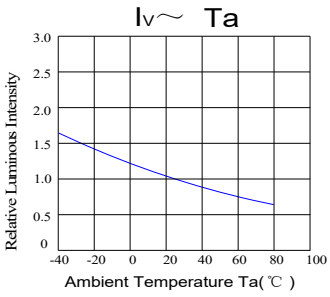
(25°C Ambient Temperature Unless Otherwise Noted)



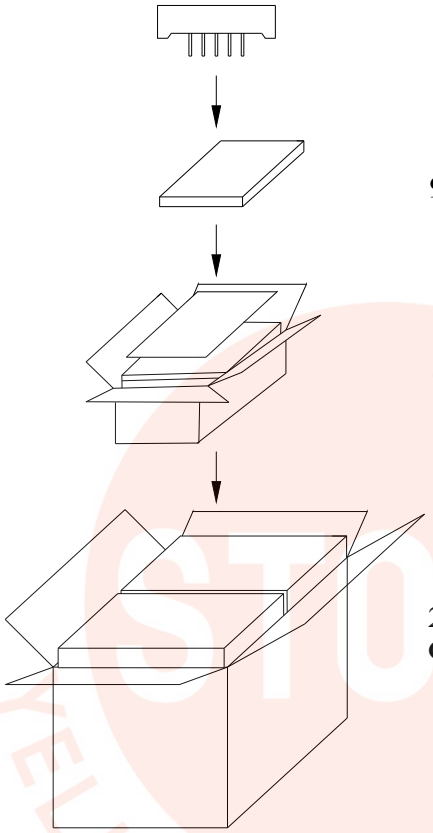








Package Flow



98PCS per PLATE

1372PCS per INNER CARTON

2744PCS per OUTER CARTON