



Seven Segment Display Data Sheet

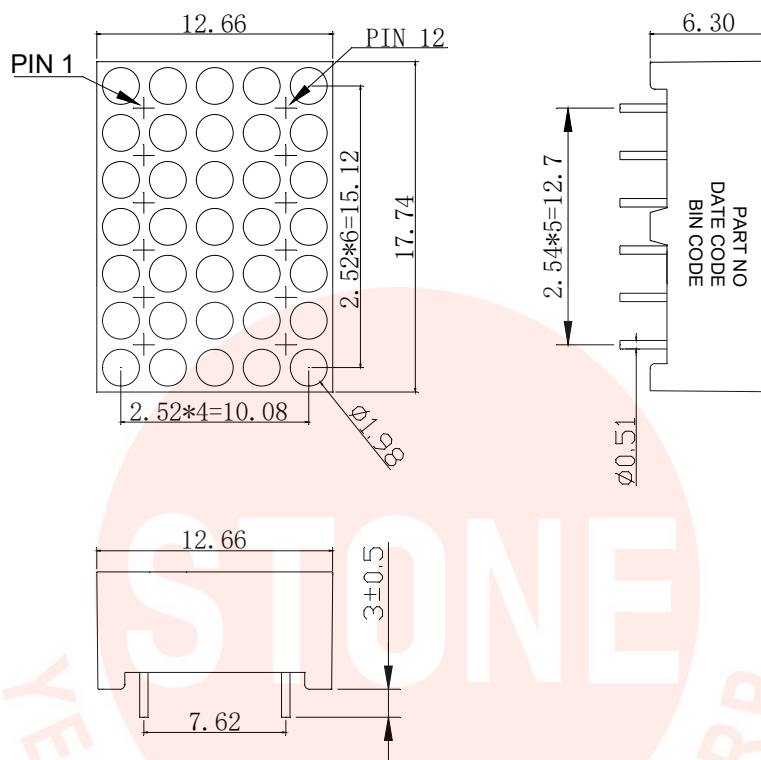
Description

This YDM-075712CY-N is a 0.078inch (2.0mm) dot height 5X7 dot matrix display. This device utilizes AllnGaP Yellow LED chips, which are made from AllnGaP on a non-transparent GaAs substrate, and has a black face and white segments .

Features

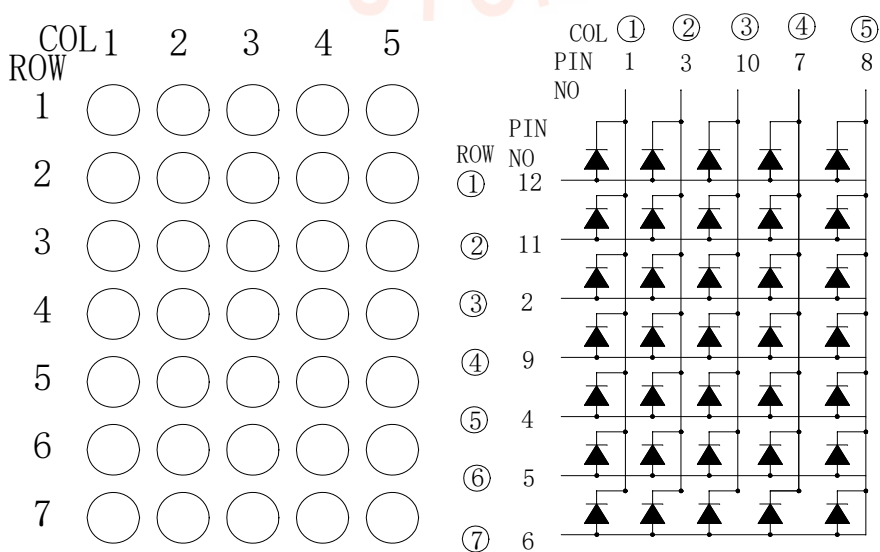
- 0.078-inch (2.0 mm) Dot HEIGHT
- LOW POWER REQUIREMENT
- SINGLE PLANE, WIDE VIEWING ANGLE
- 5x7ARRAY WITH X-Y SELECT
- COMPATIBLE WITH USASCLL AND EBCDIC CODES
- STACKABLE HORIZONTALLY
- SOLID STATE RELIABILITY
- CATEGORIZED FOR LUMINOUS INTENSITY
- LEAD-FREE PACKAGE

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	Max.	Unit
Power Dissipation Per Segment	75	mW
Peak Forward Current Per Segment (Frequency 1Khz, 15% duty cycle)	60	mA
Continuous Forward Current Per Segment	30	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:Max 260 ⁰ C for max 3sec at 1.6mm below seating plane.		

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	7	15		mcd	IF=10mA
Peak Emission Wavelength	λ_p		594		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		17		nm	IF=20mA
Dominant Wavelength	λ_d		590		nm	IF=20mA
Forward Voltage Per Segment	VF		2.0	2.6	V	IF=20mA
Reverse Current Per Segment	IR			10	μ A	VR=5V
Luminous Intensity Matching Ratio	Iv-m			2:1		IF=10mA

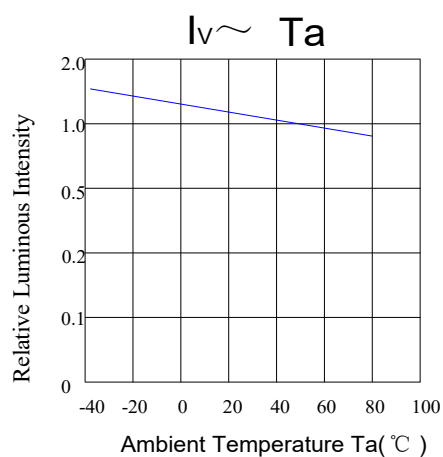
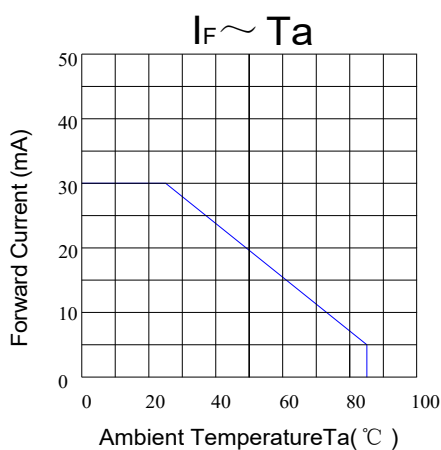
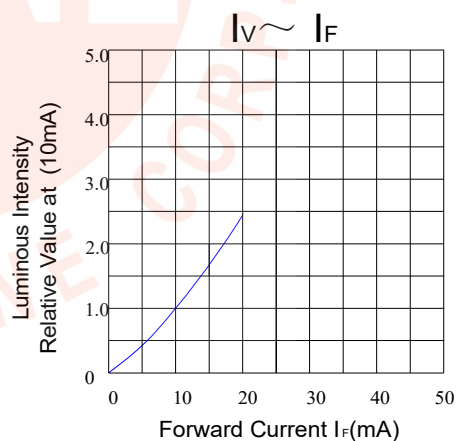
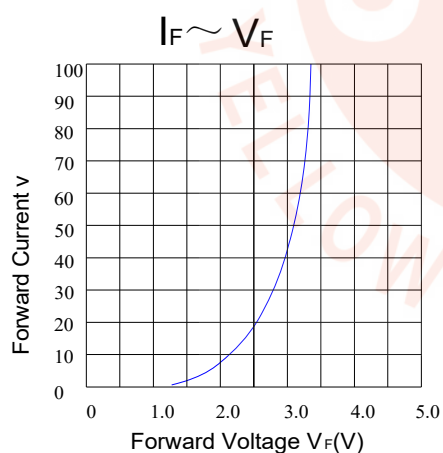
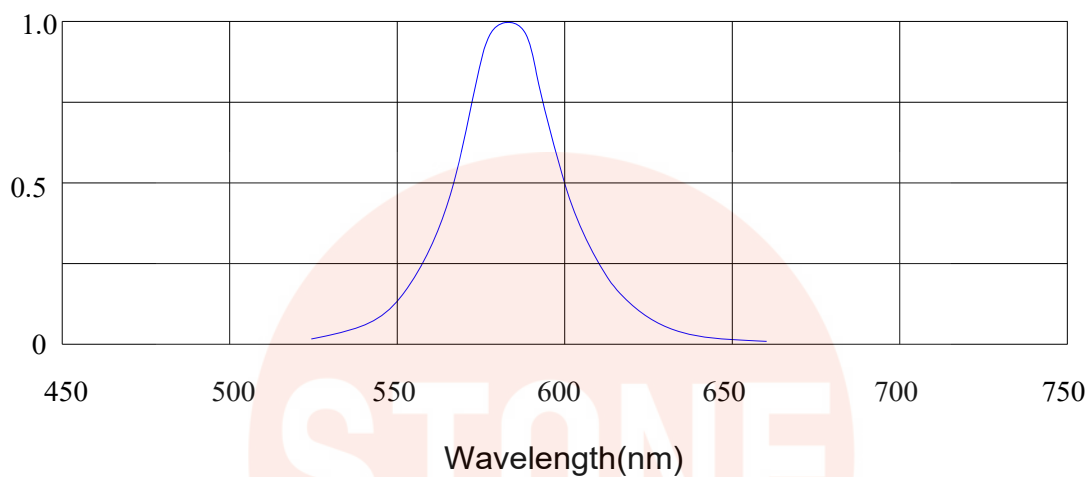
Note:1.Luminous intensity is measured with a light sensor and filter combination that approximates the CIE (Commision Internationale De L'Eclairage) eye-response curve.

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





早安股份有限公司
YELLOW STONE CORP.

Package Flow

