



Dot Matrix Display Data Sheet

Description

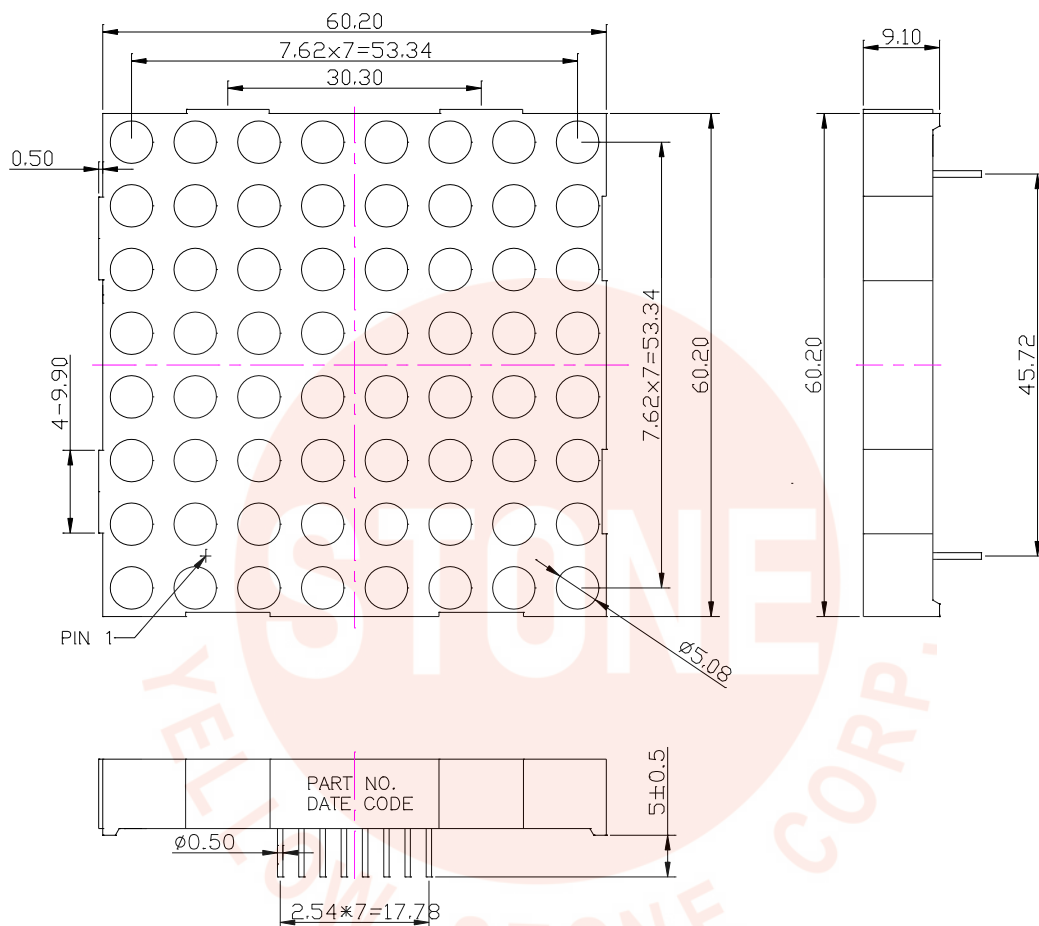
The YDM-208810CR-N is a 0.2 inch (5.08mm) dot height 8X8 dot matrix display.

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

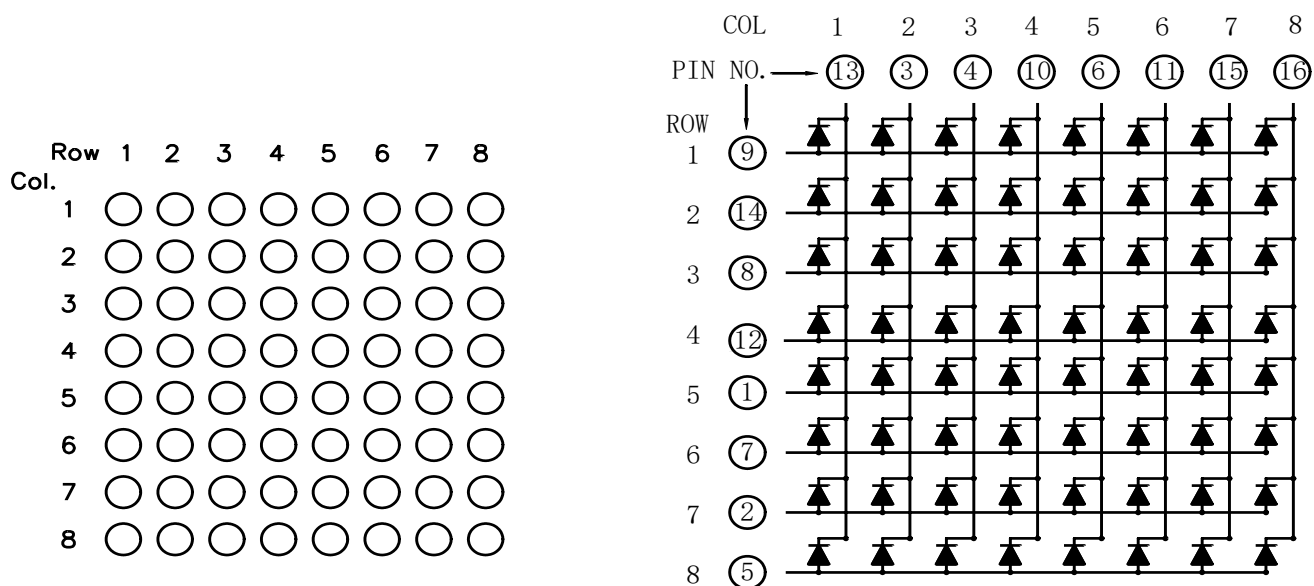
- 0.2-inch (5.08 mm) dot height
- 8x8 array with x-y select
- Low power requirement
- Excellent characters appearance
- High brightness & high contrast
- Wide viewing angle
- Solid state reliability
- Categorized for luminous intensity

Package Dimensions



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

Internal Circuit Diagram



Absolute Maximum Rating (Ta = 25°C)

PARAMETER	MAX.	UNIT
Power Dissipation Per Segment	70	mW
Peak Forward Current Per Segment Frequency 1Khz,18% duty cycle)	90	mA
Continuous Forward Current Per	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)

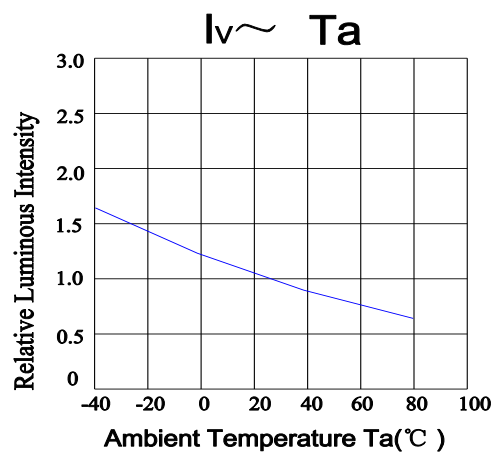
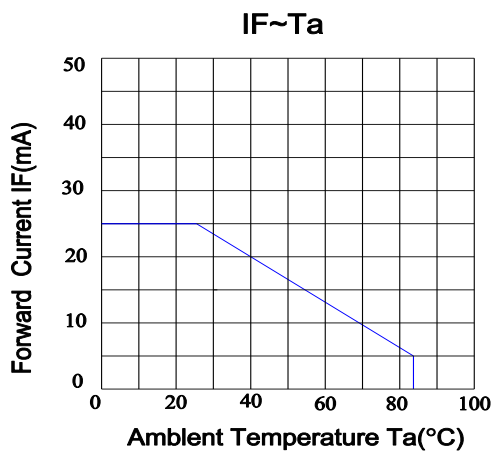
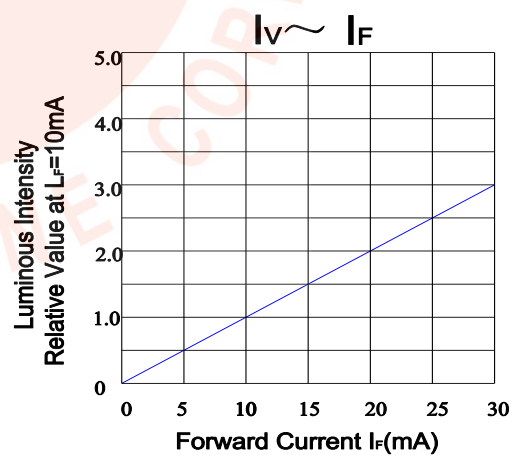
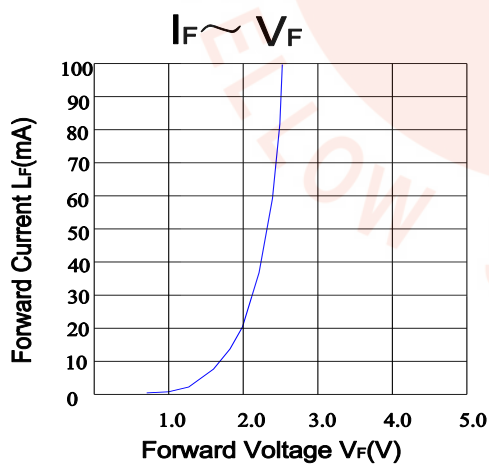
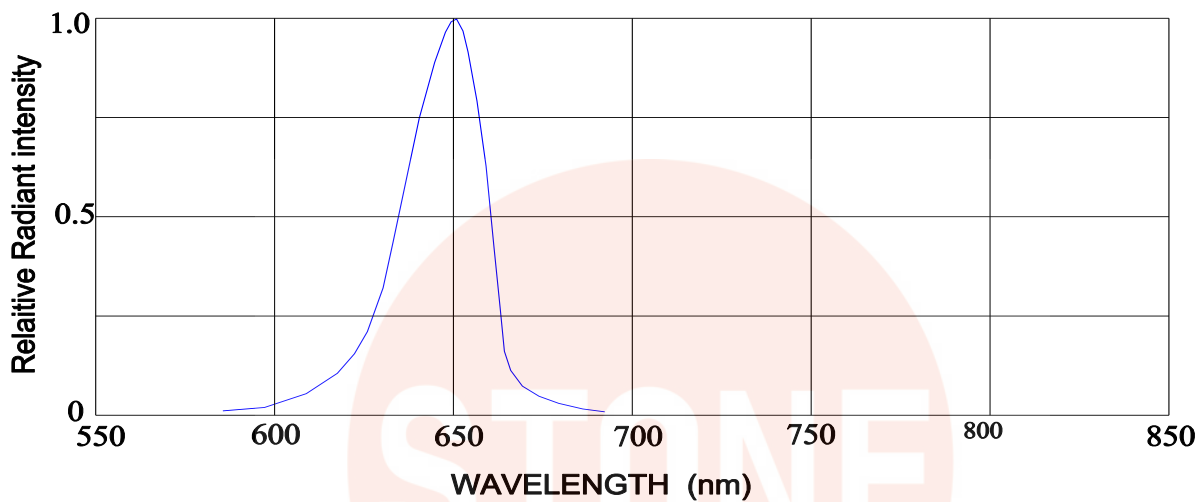
PARAMETER	SYMBOL	MIN.	TYP.	MAX.	UNIT	TEST CONDITION
Average Luminous Intensity	Iv	13	21		mcd	IF=10mA
Peak Emission Wavelength	λ_p		650		nm	IF=20mA
Spectral Line Half-Width	$\Delta\lambda$		20		nm	IF=20mA
Dominant Wavelength	λ_d		639		nm	IF=20mA
Forward Voltage Per Segment	VF		2.1	2.6	V	IF=20mA
Reverse Current Per Segment	IR			100	uA	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 (Commission Internationale De L'Eclairage) eye-response curve.

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

