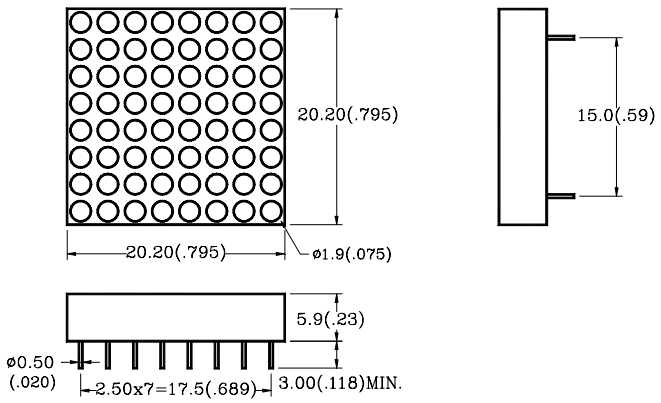
Features :

1. 0.8 inch (20.20mm) matrix height.
2. Dot size 1.90mm.
3. Low power requirement.
4. Excellent characters appearance.
5. Solid state reliability.
6. Multiplex drive , column cathode com. and row anode com.
7. Single color available.
8. Categorized for luminous intensity.
9. Stackable vertically and horizontally.

Description :

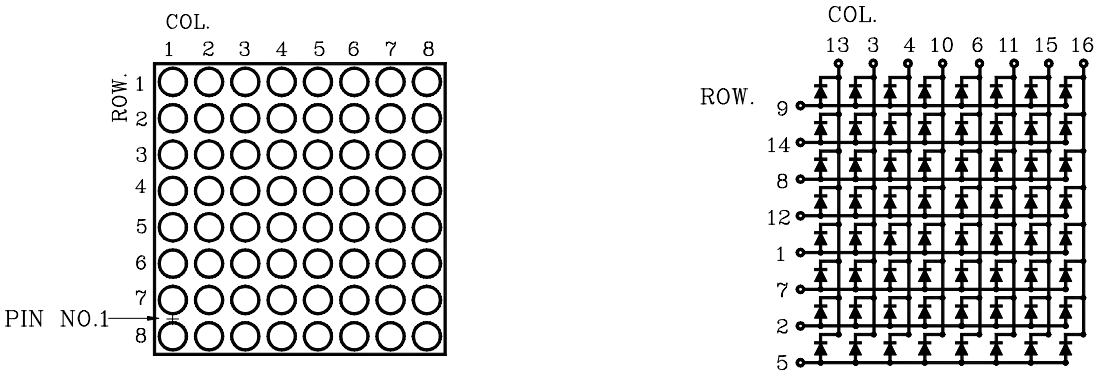
1. The BM-08J88ND is a 20.20mm (0.8") matrix height 8×8 dot matrix display.
2. This product use super orange chips, which are made from AlGaInP on GaAs substrate.
3. This product have a black face and white dots.

Package Dimensions :



Notes:
1. All dimensions are in millimeters(inches).
2. Tolerance is ±0.25mm(.01")unless otherwise specified.
3. Specifications are subject to change without notice.

Internal Circuit Diagram :



Absolute Maximum Ratings(Ta=25℃)

Parameter	Symbol	Rating	Unit
Power Dissipation Per Dot	Pd	80	mW
Forward Current Per Dot	I_F	30	mA
Peak Forward Current Per Dot	I_{FP} (Duty 1/10, 1KHZ)	150	mA
Reverse Voltage Per Dot	V_R	5	V
Operating Temperature	Topr	-40℃~80℃	-
Storage Temperature	Tstg	-40℃~85℃	-
Soldering Temperature (1/16" From Body)	Tsol	260℃ For 5 Seconds	-

Electrical And Optical Characteristics(Ta=25℃)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage Per Dot	V_F	I_F=10mA	-	1.9	2.5	V
Luminous Intensity Per Dot	Iv	I_F=10mA	-	20.0	-	mcd
Reverse Current Per Dot	I_R	V_R=5V	-	-	100	μA
Peak Wave Length	λp	I_F=10mA	-	620	-	nm
Dominant Wave Length	λd	I_F=10mA	610	-	620	nm
Spectral Line Half-width	Δλ	I_F=10mA	-	17	-	nm

Typical Electro-Optical Characteristics Curves

(25℃ Ambient Temperature Unless Otherwise Noted)

Fig.1 Relative Radiant Intensity VS. Wavelength

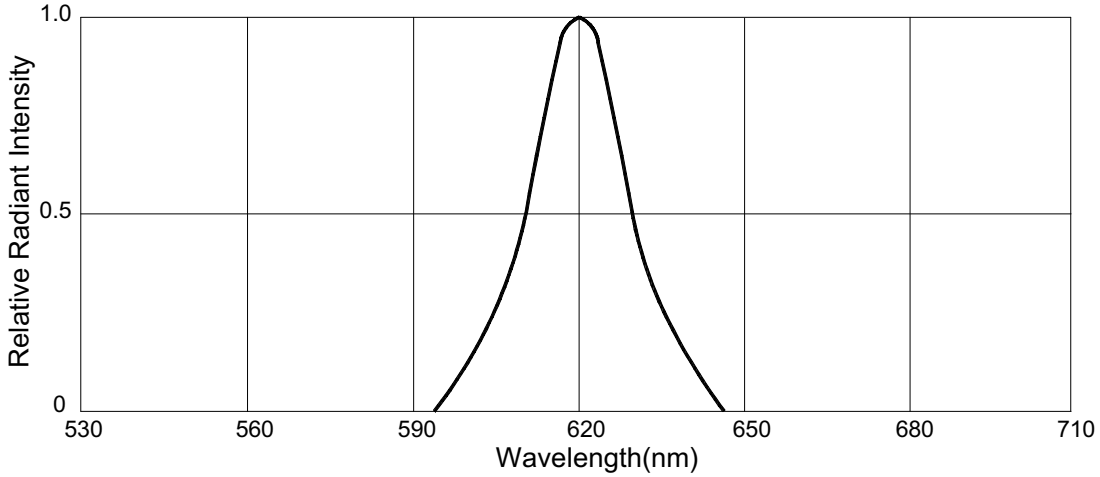


Fig.2 Forward Current VS. Forward Voltage

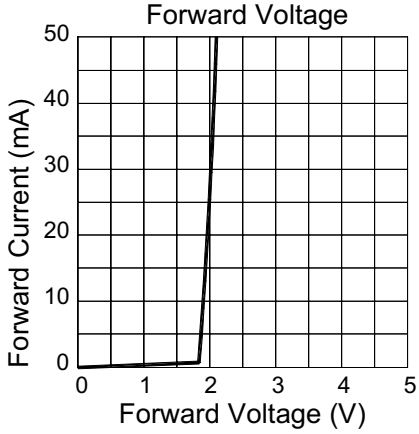


Fig.3 Relative Luminous Intensity VS. Ambient Temperature

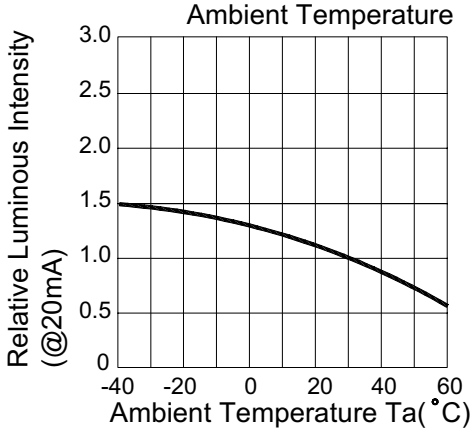


Fig.4 Relative Luminous Intensity VS. Forward Current

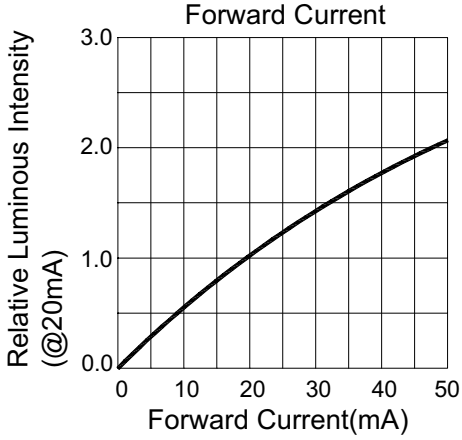
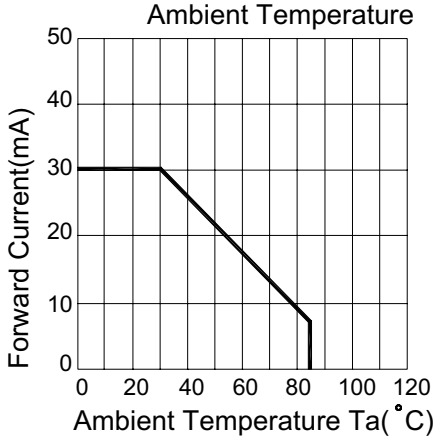


Fig.5 Forward Current Derating Curve VS. Ambient Temperature



Bin Limits

1. Intensity Bin Limits (At I_F= 10mA)

Bin Code	Min. (mcd)	Max. (mcd)
S	12.84	17.34
T	16.70	22.54
U	21.70	29.30

- Bin : x

Intensity bin code