

BRIGHT LED ELECTRONICS CORP.

BM-21657MA

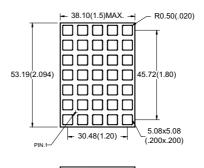
Features :

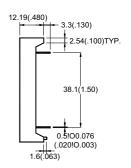
- 1. 2.094 inch (53.19mm) matrix height.
- 2. Square size 6.1×6.1mm.
- 3. Low power requirement.
- 4. Excellent characters appearance.
- 5. Solid state reliability.
- 6. Multiplex drive, column anode com. and row cathode com.
- 7. Single color available.
- 8. Categorized for luminous intensity.
- 9. Stackable vertically and horizontally.

Description :

- The BM-21657MA is a 53.19mm (2.094") matrix height 5×7 square matrix display.
- This product use super red chips, which are made from AlGaAs on GaAs substrate.
- This product have a black face and water clear squares.

Package Dimensions :



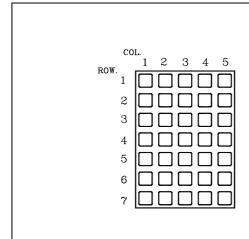


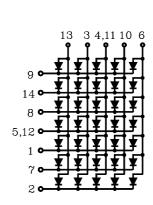


Notes:

- 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 :







BRIGHT LED ELECTRONICS CORP.

BM-21657MA

■ Absolute Maximum Ratings(Ta=25°C)

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

● Electrical And Optical Characteristics(Ta=25°C)

Parameter	Symbol	Condition	Min.	Тур.	Max.	Unit
Forward Voltage Per Square	V _F	I _F =10mA	-	1.7	2.5	V
Luminous Intensity Per Square	lv	I _F =10mA	-	24.0	-	mcd
Reverse Current Per Square	I _R	V _R =5V	-	-	100	μА
Peak Wave Length	λр	I _F =10mA	-	660	-	nm
Dominant Wave Length	λd	I _F =10mA	-	643	-	nm
Spectral Line Half-width	Δλ	I _F =10mA	-	20	-	nm



BRIGHT LED ELECTRONICS CORP.

BM-21657MA

Typical Electro-Optical Characteristics Curves

(25[°]C Ambient Temperature Unless Otherwise Noted) Fig.1 Relative Radiant Intensity VS. Wavelength

