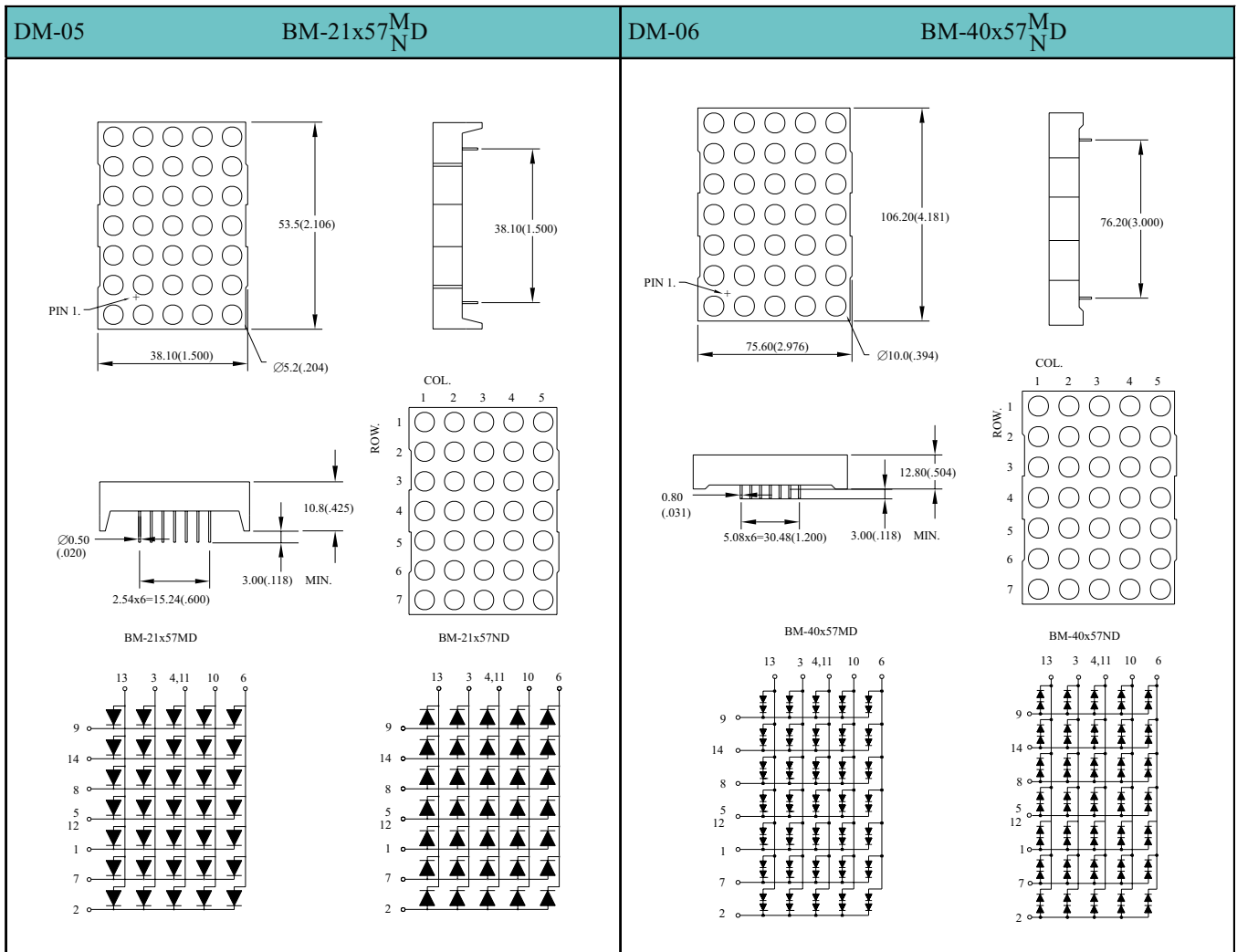




# LED DOT MATRIX DISPLAY

## Single Color 5x7 Dot Matrix Displays

| Digit Size                   | Part No.            |                       | Chip                       |                                   | Absolute Maximum Ratings |         |         |          | Electro-optical Data(At 10mA) |      |                         | Drawing No. |
|------------------------------|---------------------|-----------------------|----------------------------|-----------------------------------|--------------------------|---------|---------|----------|-------------------------------|------|-------------------------|-------------|
|                              | Column Common Anode | Column Common Cathode | Material/Emitted Color     | Peak Wave Length $\lambda_p$ (nm) | $\Delta \lambda$ (nm)    | Pd (mw) | If (mA) | Ifp (mA) | Vf (v)                        |      | Iv. Typ. Per.Seg. (mcd) |             |
|                              |                     |                       |                            |                                   |                          |         |         |          | Typ.                          | Max. |                         |             |
| 2.00"<br>High<br>$\phi$ 5.0  | BM-21257MD          | BM-21257ND            | GaP/ GaP/ Yellow Green     | 568                               | 30                       | 80      | 30      | 150      | 2.1                           | 2.5  | 12.0                    | DM-05       |
|                              | BM-21457MD          | BM-21457ND            | GaAsP/GaP/ Hi-Eff.Red      | 635                               | 45                       | 80      | 30      | 150      | 2.0                           | 2.5  | 12.0                    |             |
|                              | BM-21457MA          | BM-21457NA            | GaAsP/GaP/ Hi-Eff.Red      | 635                               | 45                       | 80      | 30      | 150      | 2.0                           | 2.5  | 20.0                    |             |
|                              | BM-21657MD          | BM-21657ND            | GaAlAs/ SH/ Super Red      | 660                               | 20                       | 80      | 30      | 150      | 1.7                           | 2.5  | 16.0                    |             |
|                              | BM-21657MA          | BM-21657NA            | GaAlAs/ SH/ Super Red      | 660                               | 20                       | 80      | 30      | 150      | 1.7                           | 2.5  | 24.0                    |             |
|                              | BM-21F57MD          | BM-21F57ND            | GaAlAs/ DDH/ Super Red     | 660                               | 20                       | 80      | 30      | 150      | 2.0                           | 2.5  | 22.0                    |             |
|                              | BM-21J57MD          | BM-21J57ND            | AlGaInP/GaAs/ Ultra Orange | 620                               | 17                       | 80      | 30      | 150      | 2.0                           | 2.5  | 30.0                    |             |
|                              | BM-21K57MD          | BM-21K57ND            | AlGaInP/GaAs/ Ultra Yellow | 592                               | 15                       | 80      | 30      | 150      | 2.1                           | 2.5  | 32.0                    |             |
| 4.00"<br>High<br>$\phi$ 10.0 | BM-40257MD          | BM-40257ND            | GaP/ GaP/ Yellow Green     | 568                               | 30                       | 160     | 30      | 150      | 4.2                           | 5.0  | 15.0                    | DM-06       |
|                              | BM-40457MD          | BM-40457ND            | GaAsP/GaP/ Hi-Eff.Red      | 635                               | 45                       | 160     | 30      | 150      | 4.0                           | 5.0  | 15.0                    |             |
|                              | BM-40457MA          | BM-40457NA            | GaAsP/GaP/ Hi-Eff.Red      | 635                               | 45                       | 160     | 30      | 150      | 4.0                           | 5.0  | 23.0                    |             |
|                              | BM-40657MD          | BM-40657ND            | GaAlAs/ SH/ Super Red      | 660                               | 20                       | 160     | 30      | 150      | 3.4                           | 5.0  | 20.0                    |             |
|                              | BM-40657MA          | BM-40657NA            | GaAlAs/ SH/ Super Red      | 660                               | 20                       | 160     | 30      | 150      | 3.4                           | 5.0  | 25.0                    |             |
|                              | BM-40F57MD          | BM-40F57ND            | GaAlAs/ DDH/ Super Red     | 660                               | 20                       | 160     | 30      | 150      | 4.0                           | 5.0  | 20.0                    |             |
|                              | BM-40J57MD          | BM-40J57ND            | AlGaInP/GaAs/ Ultra Orange | 620                               | 17                       | 160     | 30      | 150      | 4.0                           | 5.0  | 32.0                    |             |
|                              | BM-40K57MD          | BM-40K57ND            | AlGaInP/GaAs/ Ultra Yellow | 592                               | 15                       | 160     | 30      | 150      | 4.2                           | 5.0  | 35.0                    |             |



NOTES: 1.All Dimensions are in millimeters(inches).  
 2.Tolerance is  $\pm 0.25\text{mm}(.010")$ .  
 3.Specifications are subject to change without notice.  
 4.NP:No Pin. 5.NC:No Connect.