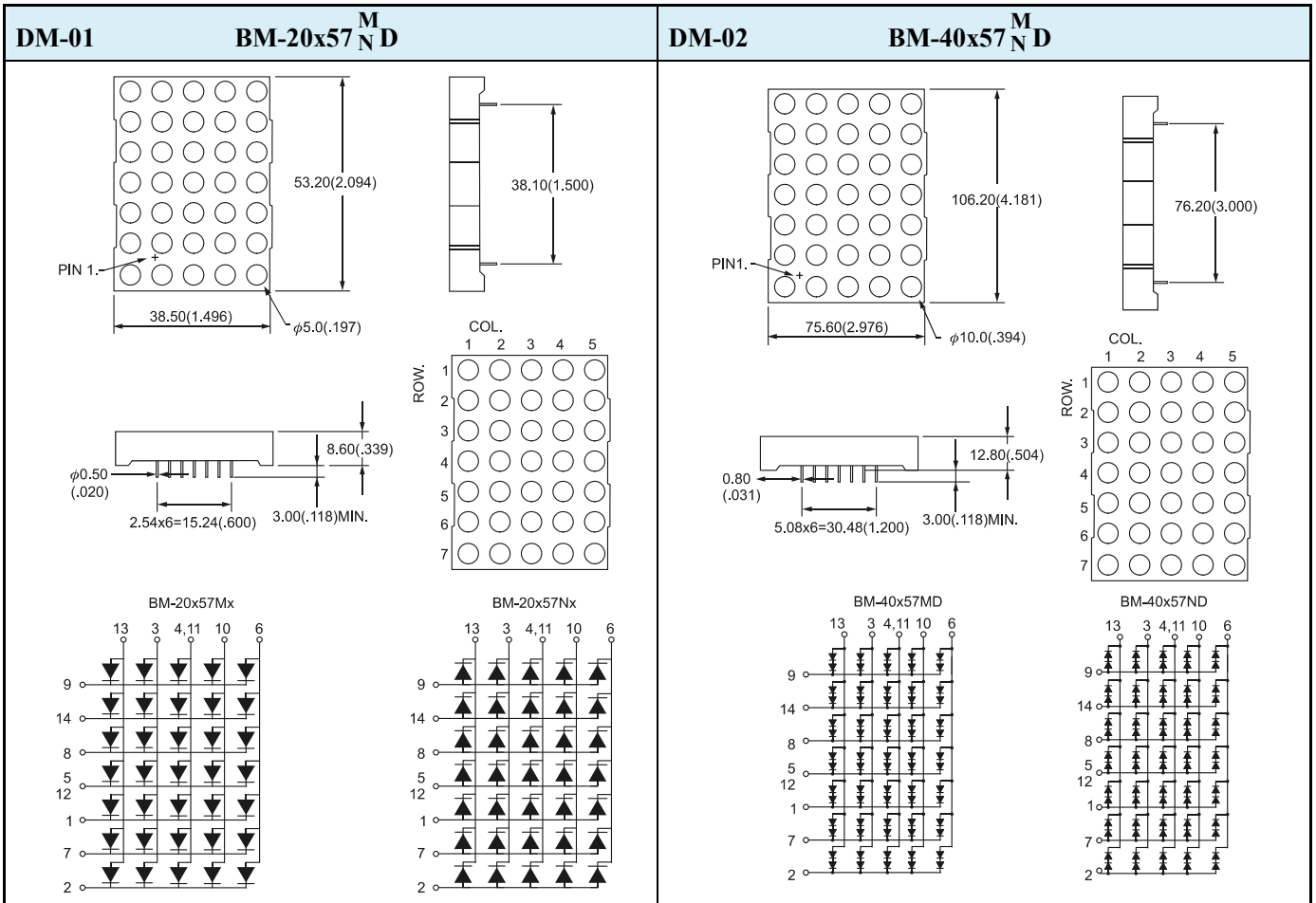


# LED DOT MATRIX DISPLAY

## 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 $\phi$ 5.0  | BM-20257MD          | BM-20257ND                | GaP/GaP/Yellow Green      | 568                              | 30                       | 80      | 30      | 150      | 2.1                            | 2.5  | 12.0                     | DM-01       |
|                           | BM-20457MD          | BM-20457ND                | GaAsP/GaP/Hi-Eff.Red      | 635                              | 45                       | 80      | 30      | 150      | 2.0                            | 2.5  | 12.0                     |             |
|                           | BM-20457MA          | BM-20457NA                | GaAsP/GaP/Hi-Eff.Red      | 635                              | 45                       | 80      | 30      | 150      | 2.0                            | 2.5  | 20.0                     |             |
|                           | BM-20657MD          | BM-20657ND                | GaAlAs/SH Super Red       | 660                              | 20                       | 80      | 30      | 150      | 1.7                            | 2.5  | 16.0                     |             |
|                           | BM-20657MA          | BM-20657NA                | GaAlAs/SH Super Red       | 660                              | 20                       | 80      | 30      | 150      | 1.7                            | 2.5  | 24.0                     |             |
|                           | BM-20F57MD          | BM-20F57ND                | GaAlAs/DDH Super Red      | 660                              | 20                       | 80      | 30      | 150      | 2.0                            | 2.5  | 22.0                     |             |
|                           | BM-20J57MD          | BM-20J57ND                | AlGaInP/GaAs/Ultra Orange | 620                              | 17                       | 80      | 30      | 150      | 2.0                            | 2.5  | 30.0                     |             |
| 4.00"<br>High $\phi$ 10.0 | BM-40257MD          | BM-40257ND                | GaP/GaP/Yellow Green      | 568                              | 30                       | 160     | 30      | 150      | 4.2                            | 5.0  | 15.0                     | DM-02       |
|                           | 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  | 18.0                     |             |
|                           | BM-40657MD          | BM-40657ND                | GaAlAs/SH Super Red       | 660                              | 20                       | 160     | 30      | 150      | 3.4                            | 5.0  | 18.0                     |             |
|                           | 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