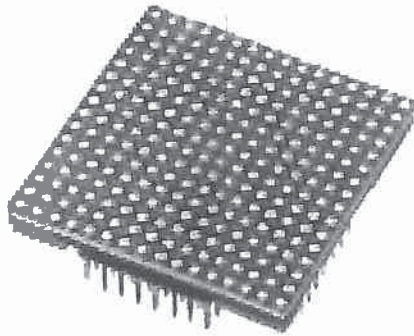


## ■ General Description

Sharp's dot matrix LEDs can express characters and symbols on a display.



## ■ Absolute Maximum Ratings

| Number of dots | Outline dimensions (mm) | Radiation color | Forward current I <sub>F</sub> (mA) | Peak forward current I <sub>FM</sub> (mA) | Derating factor (mA/°C) Pulse | Reverse voltage V <sub>R</sub> (V) | Operating temperature T <sub>op</sub> (°C) | Storage temperature T <sub>stg</sub> (°C) |
|----------------|-------------------------|-----------------|-------------------------------------|---|-------------------------------|------------------------------------|--|---|
| 16X16          | 40X40                   | Red             | 15                                  | 80 <sup>*)</sup>                          | 1.45                          | 5                                  | -20 to +60                                 | -20 to +80                                |

\*3 Duty ratio=1/16, pulse width=0.1ms

## ■ Electro-optical Characteristics Figures shown below are values per dot.

| Number of dots | Outline dimensions (mm) | Radiation color | Forward voltage V <sub>F</sub> (V) |      | Luminous intensity I <sub>v</sub> (mcd) TYP. | Peak inverse current I <sub>P</sub> (mA) TYP. | Spectrum width bandwidth Δλ (nm) TYP. | Reverse current I <sub>R</sub> (μA) MAX. |                    |   |
|----------------|-------------------------|-----------------|------------------------------------|------|--|---|---------------------------------------|--|--------------------|---|
|                |                         |                 | TYP.                               | MAX. |  |   |                                       | I <sub>R</sub> (mA)                      | V <sub>R</sub> (V) |   |
| 16X16          | 40X40                   | Red             | 2.2                                | 2.7  | 1.04   | 635   | 35                                    | 50                                       | 10                 | 4 |

\*2 I<sub>FM</sub>=50mA \*3 I<sub>F</sub>=10mA

# Dot Matrix LED Outline Dimensions (Unit:mm)

