

**DESCRIPTION**

This series of solid state indicators are encapsulated in rectangular epoxy package.

They are stackable in X or Y direction.

MSB61D is red chip with red diffused lens.

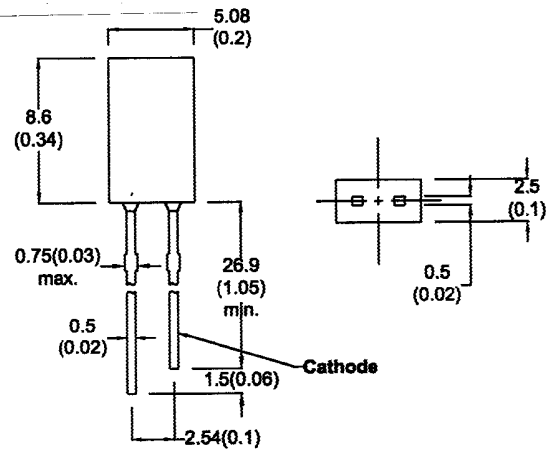
MRB61D is red chip with red diffused lens.

MOB61D is orange chip with orange diffused lens.

MOB61DR is high efficiency red chip with red diffused lens.

MGB61D is green chip with green diffused lens.

MYB61D is yellow chip with yellow diffused lens.



- All dimension in mm(inch)
- No Scale
- Tol. : +/-0.3mm

**ABSOLUTE MAXIMUM RATINGS**

|  | M<br>S<br>B<br>6<br>1<br>D | M<br>R<br>B<br>6<br>1<br>D | M<br>O<br>B<br>6<br>1<br>D | M<br>O<br>B<br>6<br>1<br>D<br>R | M<br>G<br>B<br>6<br>1<br>D | M<br>Y<br>B<br>6<br>1<br>D | UNIT |
|--|----------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|------|
| Power Dissipation (@ Ta=25°C)                | 40                         | 80                         | 100                        | 100                             | 100                        | 60                         | mW   |
| Forward Current, DC (IF)                     | 15                         | 40                         | 30                         | 30                              | 30                         | 20                         | mA   |
| Reverse Voltage                              | 5                          | 5                          | 5                          | 5                               | 5                          | 5                          | V    |
| Operating & Storage Temperature Range        | -55 to +100                |                            |                            |                                 |                            |                            | °C   |
| Lead Soldering Temperature (1/16" from body) | 260                        |                            |                            |                                 |                            |                            | °C   |

**ELECTRO-OPTICAL CHARACTERISTIC (Ta=25°C)**

| PARAMETER                 |     | S<br>Y<br>M<br>B<br>O<br>L | M<br>S<br>B<br>6<br>1<br>D | M<br>R<br>B<br>6<br>1<br>D | M<br>O<br>B<br>6<br>1<br>D | M<br>O<br>B<br>6<br>1<br>D<br>R | M<br>G<br>B<br>6<br>1<br>D | M<br>Y<br>B<br>6<br>1<br>D | U<br>N<br>I<br>T | CONDITIONS |
|---------------------------|-----|----------------------------|----------------------------|----------------------------|----------------------------|---------------------------------|----------------------------|----------------------------|------------------|------------|
| Forward Voltage           | MAX | VF                         | 3.0                        | 2.0                        | 3.0                        | 3.0                             | 3.0                        | 3.0                        | V                | IF=20mA    |
| Reverse Breakdown Voltage | MIN | BVR                        | 5                          | 5                          | 5                          | 5                               | 5                          | 5                          | V                | IR=100µA   |
| Luminous Intensity        | MIN | IV                         | 500                        | 350                        | 2500                       | 2500                            | 3000                       | 2200                       | µcd              | IF=20mA    |
|                           | TYP |                            | 650                        | 550                        | 4000                       | 4000                            | 4500                       | 3000                       | µcd              | IF=20mA    |
| Peak Wavelength           | TYP | λp                         | 700                        | 660                        | 630                        | 640                             | 570                        | 585                        | nm               | IF=20mA    |
| Spectral Line Half Width  | TYP | Δλ                         | 100                        | 20                         | 35                         | 35                              | 30                         | 35                         | nm               | IF=20mA    |
| Viewing Angle             | TYP | 2θ 1/2                     | 156                        | 156                        | 156                        | 156                             | 156                        | 156                        | nm               | IF=20mA    |

\* MSB61D : IF=10mA.



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