

# T-3<sup>1</sup>/<sub>4</sub> MINIATURE LAMP WITH LENS

*High Intensity, Wide Angle - For Medium to Large Lens Applications*

- Fresnel Lens; Bayonet or Screw Base

| 1     | Model <sup>[1]</sup> |
|-------|----------------------|
| MB402 | Bayonet              |
| MS402 | Screw                |

## TO ORDER, FOLLOW THE EXAMPLE:

Select one **BOLD** component from each SHADED column in the tables below.

| 1 | Model | 2 | LED | 3 | Voltage | 4 | Lens | 5 | Bi-Polar |
|---|-------|---|-----|---|---------|---|------|---|----------|
|   | MB402 |   | -R  |   | 12      |   | -CR  |   | -BP      |

→Part Number **MB402-R12-CR-BP**

| 2 | LED | Color | λ <sub>pk</sub><br>(nm) | I <sub>v</sub> <sup>[2]</sup><br>(mcd) | V/C<br>Table <sup>[3]</sup> |
|---|-----|-------|-------------------------|----------------------------------------|-----------------------------|
|   | -R  | RED   | 634                     | 2800 (*4)                              | I                           |
|   | -O  | ORG   | 609                     | 2000 (*4)                              | I                           |
|   | -A  | AMB   | 592                     | 2800 (*4)                              | I                           |
|   | -G  | GRN   | 520                     | 2400 (*2)                              | II                          |
|   | -B  | BLU   | 465                     | 700 (*2)                               | II                          |
|   | -W  | CWHT  |                         | 2500 (*2)                              | II                          |
|   | -L  | WWHT  |                         | 1800 (*2)                              | II                          |

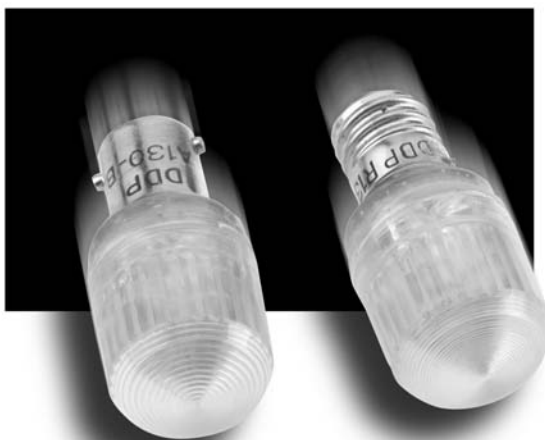
| Voltage/Current             |                          |
|-----------------------------|--------------------------|
| Design<br>Vf/I <sub>f</sub> | Max<br>Vf/I <sub>f</sub> |
| V/C Table I                 |                          |
| 5V/75mA                     | 5.5V/85mA                |
| 6V/40mA                     | 7V/60mA                  |
| 12V/30mA                    | 14V/40mA                 |
| 15V/30mA                    | 16.5V/35mA               |
| 24V/30mA                    | 26V/35mA                 |
| 28V/25mA                    | 30V/28mA                 |
| 48V/20mA                    | 52V/22mA                 |
| 60V/16mA                    | 65V/18mA                 |
| 120VAC/9.5mA                | 130VAC/10.5mA            |

| 3 | Voltage <sup>[4]</sup> |
|---|------------------------|
|   | 5                      |
|   | 6                      |
|   | 12                     |
|   | 15                     |
|   | 24                     |
|   | 28                     |
|   | 48                     |
|   | 60                     |
|   | 120                    |

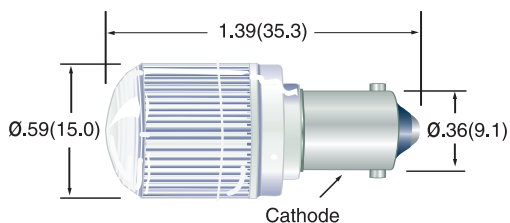
| Voltage/Current             |                          |
|-----------------------------|--------------------------|
| Design<br>Vf/I <sub>f</sub> | Max<br>Vf/I <sub>f</sub> |
| V/C Table II                |                          |
| 5V/26mA                     | 5.5V/35mA                |
| 6V/28mA                     | 7V/39mA                  |
| 12V/15mA                    | 14V/22mA                 |
| 15V/15mA                    | 16.5V/19mA               |
| 24V/15mA                    | 26V/18mA                 |
| 28V/15mA                    | 30V/18mA                 |
| 48V/9mA                     | 50V/9.5mA                |
| 60V/6.5mA                   | 65V/7.2mA                |
| 120VAC/5mA                  | 130VAC/5.5mA             |

| 4 | Lens            |
|---|-----------------|
|   | -CR Red         |
|   | -CA Amber       |
|   | -CG Green       |
|   | -CB Blue        |
|   | -CW Water Clear |

| 5 | Bi-Polar     |
|---|--------------|
|   | -BP Optional |

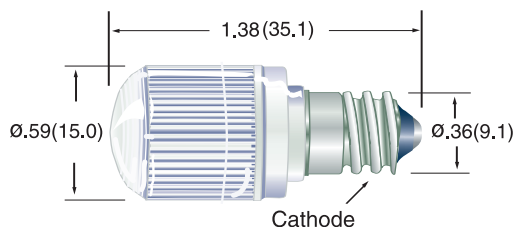


## MB402



Available with Center Cathode

## MS402



Available with Center Cathode

- [1] MB402 and MS402 are center anode. Insert C after Model for center cathode (e.g. MB402C).  
 [2] I<sub>v</sub> = typical luminous intensity @ I<sub>f</sub> = 20mA (T<sub>a</sub>=25°C). Luminous intensity is measured without the lens. (\*2) = 2 LEDs per package.  
 [3] See Voltage/Current table for design specifications.  
 [4] T<sub>a</sub> = 25°C. Voltages 6 through 60 are VDC. For AC operation, insert AC after the Voltage (e.g. 24AC), not required for 120V. Contact factory for VAC design currents. For 120VDC insert DC after Voltage (e.g. 120DC).

## All dimensions are in inches (mm)

Tolerances: .xx"(.x) ±.025"(.63) / .xxx"(.xx)±.010"(.25)  
 Specifications are subject to change without notice.

# Mouser Electronics

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## VCC:

[MS402-B5-CB](#) [MS402-O28-CW](#) [MS402-B28-CB](#) [MS402-G15-CG](#) [MB402-B5-CB](#) [MB402-B6-CB-BP](#) [MS402-A15-CW](#) [MS402-L15-CW-BP](#) [MS402-B5-CW-BP](#) [MB402-G60-CG](#) [MS402-G60-CW-BP](#) [MB402-W15-CW](#) [MS402-B6-CB-BP](#) [MB402-O24-CW-BP](#) [MB402-W12-CW-BP](#) [MS402-A48-CA-BP](#) [MB402-O6-CW-BP](#) [MS402-R15-CW](#) [MS402-L60-CW-BP](#) [MS402-A6-CA](#) [MS402-O24-CW-BP](#) [MB402-L15-CW-BP](#) [MS402-R120-CR-BP](#) [MS402-R28-CR](#) [MS402-G24-CW-BP](#) [MB402-R12-CR-BP](#) [MB402-B48-CW](#) [MB402-A15-CW](#) [MB402-L48-CW](#) [MS402-B48-CW](#) [MB402-B24-CW](#) [MB402-R28-CW-BP](#) [MS402-G15-CW-BP](#) [MS402-L6-CW](#) [MS402-R12-CR-BP](#) [MB402-A12-CA-BP](#) [MS402-G5-CW](#) [MS402-A28-CA](#) [MS402-G28-CG-BP](#) [MB402-A24-CW](#) [MB402-G12-CW](#) [MS402-A120-CA-BP](#) [MB402-G60-CW-BP](#) [MS402-L24-CW](#) [MB402-G15-CG](#) [MB402-B12-CB-BP](#) [MB402-L60-CW-BP](#) [MS402-A28-CW-BP](#) [MB402-A48-CA-BP](#) [MS402-B12-CB-BP](#) [MB402-B120-CW-BP](#) [MB402-A60-CW](#) [MB402-W60-CW](#) [MS402-G60-CG](#) [MB402-A28-CA](#) [MB402-R24-CW](#) [MB402-L120-CW](#) [MS402-B120-CW-BP](#) [MB402-W5-CW-BP](#) [MB402-B48-CB](#) [MS402-B6-CW](#) [MB402-B60-CB-BP](#) [MB402-G24-CW-BP](#) [MB402-W120-CW](#) [MS402-O6-CW-BP](#) [MB402-R15-CW](#) [MB402-G5-CW](#) [MB402-R5-CR-BP](#) [MS402-B60-CW-BP](#) [MB402-O120-CW-BP](#) [MS402-A60-CA](#) [MB402-L120-CW-BP](#) [MB402-A28-CA-BP](#) [MS402-L5-CW](#) [MB402-B48-CW-BP](#) [MS402-R28-CR-BP](#) [MB402-R12-CW](#) [MB402-G24-CG](#) [MB402-B120-CB](#) [MB402-G28-CG-BP](#) [MS402-L48-CW-BP](#) [MS402-R28-CW-BP](#) [MS402-L120-CW](#) [MB402-O5-CW](#) [MB402-O12-CW](#) [MS402-A24-CA](#) [MB402-A120-CA-BP](#) [MS402-G12-CG](#) [MS402-R12-CR](#) [MS402-B48-CB-BP](#) [MS402-G48-CW](#) [MS402-B15-CW](#) [MB402-R24-CW-BP](#) [MB402-R48-CR-BP](#) [MB402-R28-CR](#) [MS402-O60-CW-BP](#) [MS402-B60-CW](#) [MB402-R120-CW](#) [MB402-A6-CW-BP](#) [MB402-G15-CW-BP](#)