

# Dialight

## 586 Series BASED LED

### T 3 1/4 MINIATURE BAYONET (BA9S)

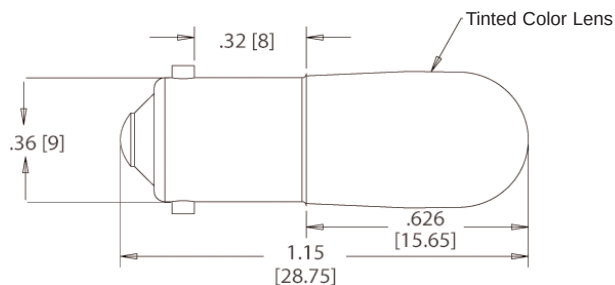


#### FEATURES / BENEFITS

- ▲ Easy installation
- ▲ Super bright single chip design
- ▲ AlInGaP and InGaN technology
- ▲ Polarized and non-polarized configurations available
- ▲ High brightness with low current draw - uses up to 90% less energy than an incandescent
- ▲ Long life - typically 100K hours
- ▲ No heat generated
- ▲ Resistant to shock and vibration
- ▲ Integral resistor
- ▲ Colors include red, green, amber, blue and white

Dialight's line of based LED lamps is designed to directly replace many popular subminiature and miniature incandescent lamps. The benefits of LED technology over incandescent are significant: They offer long life, are shock resistant, withstand vibration and provide energy conservation.

#### SPECIFICATIONS



Measurements are typical  
Dimensions are inches [mm]

- ▲ Operating Voltages - 6,14,and 28 VDC
- ▲ Polarized and non-polarized available
- ▲ Operating temperature: -30°C to 85°C
- ▲ Storage temperature: -40°C to 100°C
- ▲ Replaces incandescent lamp numbers: 44, 47, 313, 755,1815, 1819, 1847, 1850, 1866, 1889,1891, 1892, 1893 and 1895\*

\* May replace other incandescent lamps.

#### CONSIDERATIONS

- ▲ These lamps are available in 6, 14, 28VDC, and 120 VAC. For 120 VAC please see Dialight's 585 Series Cluster Lamp
- ▲ Although these lamps can be operated at a lower voltage, which will increase the life, the intensity will be reduced
- ▲ Operation of the based LED at a higher voltage should not exceed 10% above the recommended voltage
- ▲ Dialight does not recommend the based LED lamps be used in neon lamp sockets
- ▲ If the socket's polarity is unknown, Dialight recommends using a non-polarized lamp

Dialight reserves the right to make changes at any time in order to supply the best product possible.



#### Dialight Corporation

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MDEL586E001\_A

## POLARIZED

| Part Number                               | Color  | Peak Wavelength (nm) | Nominal Voltage | Forward Current (TYP. mA) | Intensity (TYP. - mcd) | Replaces Multi-Chip Part Number |
|-------------------------------------------|--------|----------------------|-----------------|---------------------------|------------------------|---------------------------------|
| 586-2401-101                              | Red    | 630                  | 6               | 15                        | 1050                   | 585-4111                        |
| 586-2402-101                              | Green  | 525                  | 6               | 15                        | 1650                   | 585-4311                        |
| 586-2403-101                              | Yellow | 592                  | 6               | 15                        | 1275                   | 585-4411                        |
| 586-2405-101                              | Blue   | 470                  | 6               | 15                        | 487                    | -                               |
| 586-2406-101                              | White  | *                    | 6               | 15                        | 825                    | -                               |
| 586-2401-103                              | Red    | 630                  | 14              | 15                        | 1050                   | 585-4113                        |
| 586-2402-103                              | Green  | 525                  | 14              | 15                        | 1650                   | 585-4313                        |
| 586-2403-103                              | Yellow | 592                  | 14              | 15                        | 1275                   | 585-4413                        |
| 586-2405-103                              | Blue   | 470                  | 14              | 15                        | 487                    | -                               |
| 586-2406-103                              | White  | *                    | 14              | 15                        | 825                    | -                               |
| 586-2401-105                              | Red    | 630                  | 28              | 15                        | 1050                   | 585-4115                        |
| 586-2402-105                              | Green  | 525                  | 28              | 15                        | 1650                   | 585-4315                        |
| 586-2403-105                              | Yellow | 592                  | 28              | 15                        | 1275                   | 585-4415                        |
| 586-2405-105                              | Blue   | 470                  | 28              | 15                        | 487                    | -                               |
| 586-2406-105                              | White  | *                    | 28              | 15                        | 825                    | -                               |
| * Color Coordinates: x = 0.330, y = 0.365 |        |                      |                 |                           |                        |                                 |

## NON-POLARIZED

| Part Number                               | Color  | Peak Wavelength (nm) | Nominal Voltage | Forward Current (TYP. mA) | Intensity (TYP. - mcd) | Replaces Multi-Chip Part Number |
|-------------------------------------------|--------|----------------------|-----------------|---------------------------|------------------------|---------------------------------|
| 586-2401-201                              | Red    | 630                  | 6               | 15                        | 1050                   | 585-4121                        |
| 586-2402-201                              | Green  | 525                  | 6               | 15                        | 1650                   | 585-4321                        |
| 586-2403-201                              | Yellow | 592                  | 6               | 15                        | 1275                   | 585-4421                        |
| 586-2405-201                              | Blue   | 470                  | 6               | 15                        | 487                    | -                               |
| 586-2406-201                              | White  | *                    | 6               | 15                        | 825                    | -                               |
| 586-2401-203                              | Red    | 630                  | 14              | 15                        | 1050                   | 585-4123                        |
| 586-2402-203                              | Green  | 525                  | 14              | 15                        | 1650                   | 585-4323                        |
| 586-2403-203                              | Yellow | 592                  | 14              | 15                        | 1275                   | 585-4423                        |
| 586-2405-203                              | Blue   | 470                  | 14              | 15                        | 487                    | -                               |
| 586-2406-203                              | White  | *                    | 14              | 15                        | 825                    | -                               |
| 586-2401-205                              | Red    | 630                  | 28              | 7.5                       | 525                    | 585-4125                        |
| 586-2402-205                              | Green  | 525                  | 28              | 7.5                       | 825                    | 585-4325                        |
| 586-2403-205                              | Yellow | 592                  | 28              | 7.5                       | 637                    | 585-4425                        |
| 586-2405-205                              | Blue   | 470                  | 28              | 7.5                       | 243                    | -                               |
| 586-2406-205                              | White  | *                    | 28              | 7.5                       | 412                    | -                               |
| * Color Coordinates: x = 0.330, y = 0.365 |        |                      |                 |                           |                        |                                 |

### Maximizing Light Output

Since lens caps act as filters for the light emitted from the based LED, it is important to match the color of the wavelength of the LED. Dialight recommends using transparent lenses, which will optimize light output. The 095 Series lamp sockets may be used with these based LEDs, and matched with the following caps:

|              |              |
|--------------|--------------|
| Red          | 052-3191-003 |
| Green        | 052-3198-003 |
| Yellow/Amber | 052-3193-003 |
| Blue         | 052-3194-003 |
| Clear        | 052-3197-003 |



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