

Dialight

586 Series - Sunlight Readable CLUSTER BASED LED T3 1/4 Miniature Bayonet (BA9s)

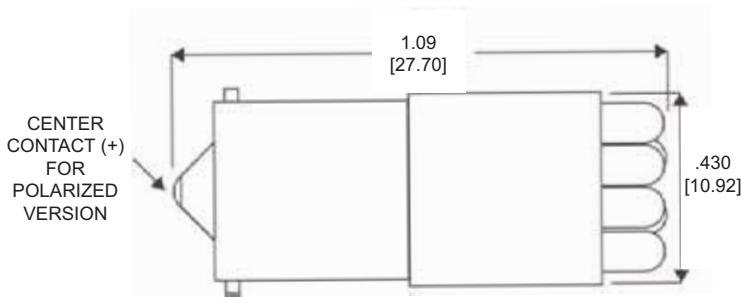


FEATURES / BENEFITS

- ▲ RoHS Compliant
- ▲ High brightness with low current draw - uses up to 90% less energy than an incandescent
- ▲ Long life - up to 100K hours
- ▲ True non-polarized configurations available
- ▲ No heat generated
- ▲ Mounts directly into industry standard socket
- ▲ Resistant to shock and vibration
- ▲ Incorporating AlInGaP or InGaN technology
- ▲ Super bright LED cluster design
- ▲ Available in 6, 14, and 28 VDC, 120 VAC
- ▲ Colors include Red, Green, Yellow, Blue, 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, 28 VDC, 120 VAC
- ▲ 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

* See Dialight's Incandescent lamp/based LED cross reference for a complete listing

CONSIDERATIONS

- ▲ Since lens caps act as filters for the light emitted from the based LED, it is important to match the emitting color of the LED. If not matched properly, the overall light output may be substantially reduced. Dialight recommends using transparent lenses, which will optimize the light output.
- ▲ If you are unfamiliar with the polarity of the circuit, Dialight recommends using a non-polarized version.
- ▲ 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 that based LED lamps be used in neon sockets.

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



Dialight Corporation

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MDLBA9SSR001_B



586 Series - Sunlight Readable CLUSTER BASED LED T3 1/4 Miniature Bayonet (BA9s)

POLARIZED

| Part Number | Color | Peak Wavelength (nm) | Nominal Voltage (VDC) | Forward Current TYP.-(mA) | Intensity TYP.-(mcd) | RoHS Compliant |
|---------------|--------|----------------------|-----------------------|---------------------------|----------------------|----------------|
| 586-6401-101F | Red | 630 | 6 | 100 | 1000 | ✓ |
| 586-6402-101F | Green | 526 | 6 | 90 | 3800 | ✓ |
| 586-6403-101F | Yellow | 592 | 6 | 100 | 2000 | ✓ |
| 586-6405-101F | Blue | 472 | 6 | 90 | 850 | ✓ |
| 586-6406-101F | White | * | 6 | 90 | 4800 | ✓ |
| 586-6401-103F | Red | 630 | 14 | 50 | 1000 | ✓ |
| 586-6402-103F | Green | 526 | 14 | 40 | 3100 | ✓ |
| 586-6403-103F | Yellow | 592 | 14 | 50 | 2000 | ✓ |
| 586-6405-103F | Blue | 472 | 14 | 40 | 685 | ✓ |
| 586-6406-103F | White | * | 14 | 40 | 4800 | ✓ |
| 586-6401-105F | Red | 630 | 28 | 17 | 1000 | ✓ |
| 586-6402-105F | Green | 526 | 28 | 13 | 3600 | ✓ |
| 586-6403-105F | Yellow | 592 | 28 | 17 | 2000 | ✓ |
| 586-6405-105F | Blue | 472 | 28 | 13 | 780 | ✓ |
| 586-6406-105F | White | * | 28 | 13 | 4200 | ✓ |

NON-POLARIZED

| Part Number | Color | Peak Wavelength (nm) | Nominal Voltage | Forward Current TYP.-(mA) | Intensity TYP.-(mcd) | RoHS Compliant |
|---------------|--------|----------------------|-----------------|---------------------------|----------------------|----------------|
| 586-6401-201F | Red | 630 | 6 VDC | 100 | 1000 | ✓ |
| 586-6402-201F | Green | 526 | 6 VDC | 70 | 3400 | ✓ |
| 586-6403-201F | Yellow | 592 | 6 VDC | 100 | 2000 | ✓ |
| 586-6405-201F | Blue | 472 | 6 VDC | 70 | 685 | ✓ |
| 586-6406-201F | White | * | 6 VDC | 70 | 4000 | ✓ |
| 586-6401-203F | Red | 630 | 14 VDC | 50 | 1000 | ✓ |
| 586-6402-203F | Green | 526 | 14 VDC | 40 | 3400 | ✓ |
| 586-6403-203F | Yellow | 592 | 14 VDC | 50 | 2000 | ✓ |
| 586-6405-203F | Blue | 472 | 14 VDC | 40 | 685 | ✓ |
| 586-6406-203F | White | * | 14 VDC | 40 | 4000 | ✓ |
| 586-6401-205F | Red | 630 | 28 VDC | 18 | 1000 | ✓ |
| 586-6402-205F | Green | 526 | 28 VDC | 11 | 3400 | ✓ |
| 586-6403-205F | Yellow | 592 | 28 VDC | 18 | 2000 | ✓ |
| 586-6405-205F | Blue | 472 | 28 VDC | 11 | 685 | ✓ |
| 586-6406-205F | White | * | 28 VDC | 11 | 4000 | ✓ |
| 586-6401-206F | Red | 630 | 120 VAC | 9 | 500 | ✓ |
| 586-6402-206F | Green | 526 | 120 VAC | 9 | 2400 | ✓ |
| 586-6403-206F | Yellow | 592 | 120 VAC | 9 | 1000 | ✓ |
| 586-6405-206F | Blue | 472 | 120 VAC | 9 | 565 | ✓ |
| 586-6406-206F | White | * | 120 VAC | 9 | 3000 | ✓ |

* Color coordinates (X = 0.296 Y = 0.276)

With the technological advancements in Light Emitting Diodes (LEDs) brightness can now rival the incandescent lamp when used in similar packages. These advancements have created a new type of product called the based LED - an LED with the functionality of an incandescent bulb.

The following styles are currently available in red, green, yellow, blue and white:

- ▲ T1 3/4 Midget Flange
- ▲ T1 3/4 Bi-Pin
- ▲ T1 3/4 Wedge (T5)
- ▲ T2 Telephone Slide
- ▲ T3 1/4 Miniature Bayonet (BA9S)
- ▲ T3 1/4 Miniature Screw (E10)
- ▲ T3 1/4 Wedge (T10)
- ▲ 15mm SC Bayonet (BA15s)

Dialight's line of based LEDs continues to grow. Please visit our website for more information. www.dialight.com

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MDELBA9SSR001_B

Mouser Electronics

Authorized Distributor

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