



## Sunbrite Product Gallery

COMPLETE SOLID STATE, ENERGY EFFICIENT LIGHTING SOLUTIONS

### 10mm (0.35") Single LED, Miniature Bayonet (BA9S) Base

#### Applications

- Incandescent Replacements
- Indicator Lights

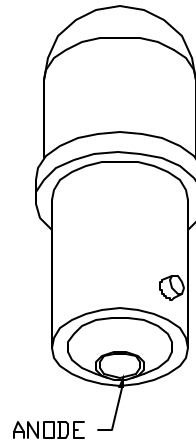
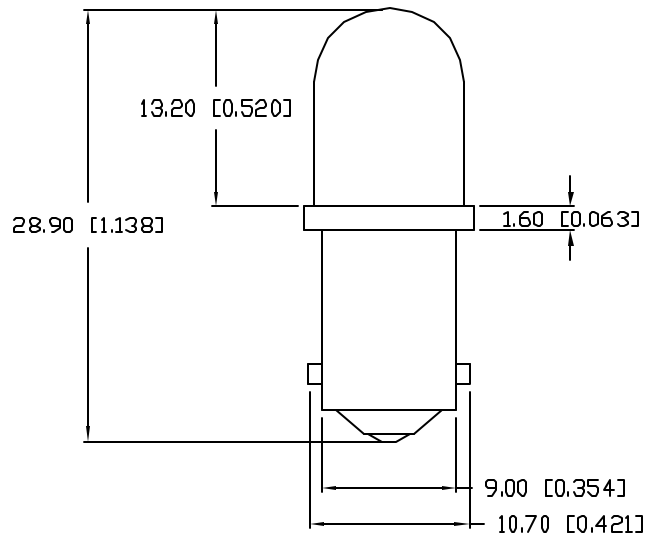
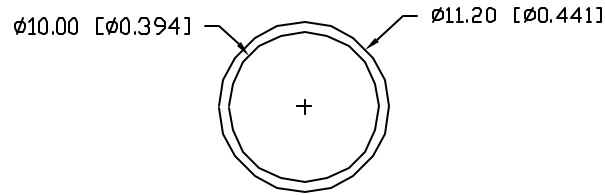
#### Features/Benefits

- Large Range of Voltages Available
- Bayonet and Screw Bases Available
- Different Sized Bases Available
- Other Colors Available
- Reverse Polarity Available
- 2 Chips, Wider View Angle



[Product Gallery](#) > [Filament Lamp Replacements](#) > [10mm \(0.35"\) Single LED, Miniature Bayonet \(BA9S\) Base](#)

Part Numbers:	Emitted Color	Wavelength (nm)	Material	Unit LED Intensity mCD per die @ 20mA (If)(Typical)	Fwd. Voltage	Standard Common Pin
<a href="#">SSP-D29B9SIC-12V</a>	Super Intensity Red	636	2500	12	BA9S	1816, 181
<a href="#">SSP-D29B9SIC-28V</a>	Super Intensity Red	636	2200	28	BA9S	1843, 757
<a href="#">SSP-D29B9SIC-6V</a>	Super Intensity Red	636	2600	6	BA9S	316, 755, 47
<a href="#">SSP-D29B9SUGC-12V</a>	Super Pure Green	574	1000	12	BA9S	1816, 181
<a href="#">SSP-D29B9SUGC-28V</a>	Super Pure Green	574	950	28	BA9S	1843, 757
<a href="#">SSP-D29B9SUGC-6V</a>	Super Pure Green	562	1200	6	BA9S	316, 755, 47
<a href="#">SSP-D29B9SWC-28V</a>	Super White	-	950	28	BA9S	1843, 757
<a href="#">SSP-D29B9SYC-12V</a>	Super Yellow	590	1500	12	BA9S	1816, 181
<a href="#">SSP-D29B9SYC-28V</a>	Super Yellow	590	380	28	BA9S	1843, 757
<a href="#">SSP-D29B9SYC-6V</a>	Super Yellow	590	1700	6	BA9S	316, 755, 47



ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $V_f=6\text{ V}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		590		nm	
FORWARD VOLTAGE		6.0		$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_f=100\mu\text{A}$
AXIAL INTENSITY		1500		mcad	$V_f=6\text{ V}$
VIEWING ANGLE		40		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	150	mW
DERATE FROM $25^{\circ}\text{C}$	-1.2	mW/ $^{\circ}\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

\*  $t < 10\mu\text{s}$

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005), LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= <sup>+DECIMAL PRECISION</sup> -0.00 MAX= <sup>+0.00</sup> -DECIMAL PRECISION

REV.

PART NUMBER

SSP-D29B9SYC-6V

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

DUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.



10mm CIRCULAR BA9 BASE LAMP,  
590nm AlInGaP YELLOW LED, WATER CLEAR LENS.

DRAWN:  
BC

CHECKED:

APPROVED:

DATE:  
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