



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



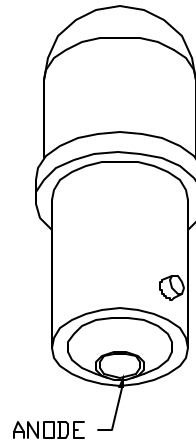
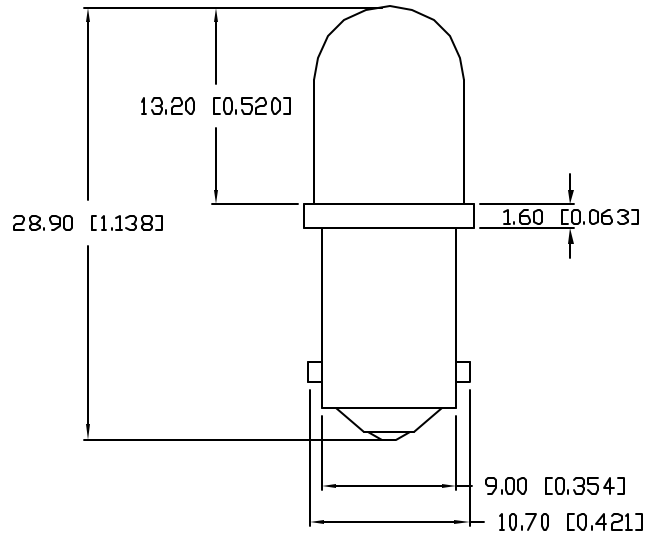
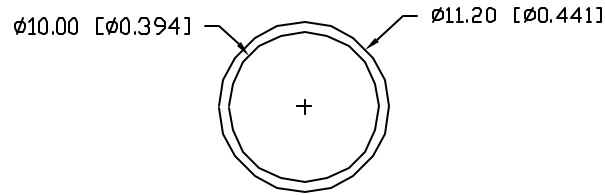
[Product Gallery](#) > [Filament Lamp Replacements](#) > [10mm \(0.35"\) Single LED, Miniature Bayonet \(BA9S\) Base](#)

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

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PART NUMBER
SSP-D29B9SIC-28V

REV.



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $V_f=28\text{V}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		636		nm	
FORWARD VOLTAGE		28		V_f	
REVERSE VOLTAGE	5.0			V_r	$I_f=100\mu\text{A}$
AXIAL INTENSITY		2500		mcd	$V_f=28\text{V}$
VIEWING ANGLE		40		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	150	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	150	mW
DERATE FROM 25°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= ^{+DECIMAL PRECISION} -0.00 MAX= ^{+0.00} -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.

PART NUMBER

SSP-D29B9SIC-28V

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,
636nm AlInGaP RED LED, WATER CLEAR LENS.

DRAWN:
BC

CHECKED:

APPROVED:

DATE:

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