



## Sunbrite Product Gallery

COMPLETE SOLID STATE, ENERGY EFFICIENT LIGHTING SOLUTIONS

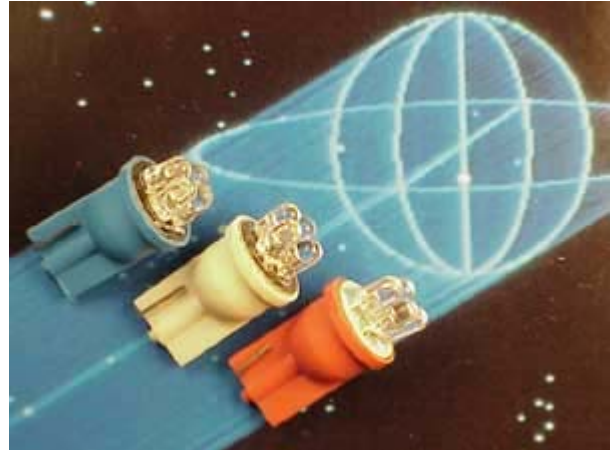
### LED Miniature Wedge Base Four LEDs

#### Applications

- Warning Lamps and Indicators
- Decorative Lighting
- Dome/Interior Light
- Clearance/Side Marker Light

#### Features\Benefits

- Large Range of Voltages Available
- Other Colors Available
- Low Power Consumption
- Drop in Incandescent Replacement
- Vibration Resistant



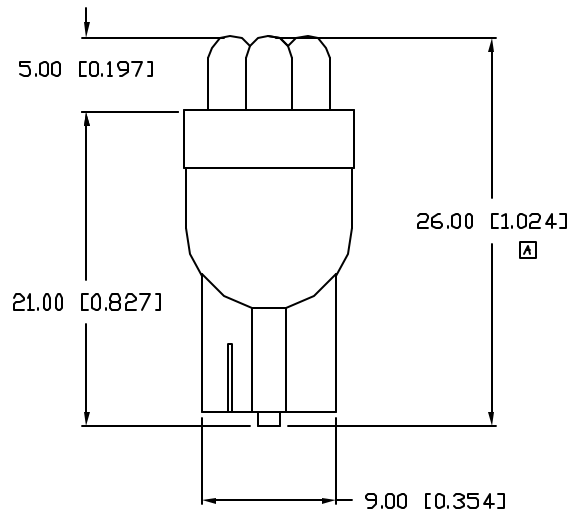
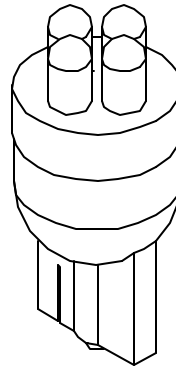
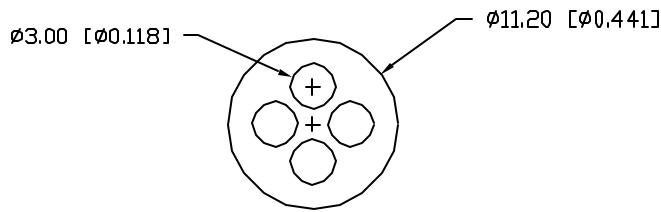
[Product Gallery](#) > [Traffic and Automotive](#) > [LED Miniature Wedge Base Four LEDs](#)

Part Numbers:	Emitted Color	Wavelength (nm)	Material	Unit LED Intensity mCD per die @ 20mA (If)(Typical)	Fwd. Voltage	Standard Common Pin
<a href="#">SSP-04MWB2UPL2</a>	Ultra Green	525	InGaN/SiC	4,500	12	30
<a href="#">SSP-04MWB3SL2</a>	Super Yellow	590	AlInGaP	3,500	12	30
<a href="#">SSP-04MWB6UL2</a>	Ultra Red	626	AlInGaP	3,500	12	30
<a href="#">SSP-04MWB7UL2</a>	Ultra Super Blue	470	InGaN/SiC	3,000	12	30
<a href="#">SSP-04MWB9L2</a>	Ultra White	-	InGaN/SiC	7,000	12	30

UNCONTROLLED DOCUMENT

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

PART NUMBER		REV.
SSP-04MWB9L2		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10961.	



ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $V_f=20\text{V}$

PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH				nm	
FORWARD VOLTAGE		12.0	14.0	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY		7000		mcd	$V_f=20\text{V}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	ULTRA WHITE				
EPOXY LENS FINISH:	WATER CLEAR LENS				

LIMITS OF SAFE OPERATION AT 25°C PER MODULE

PARAMETER	MAX	UNITS
PEAK FORWARD VOLTAGE	14	V
STEADY CURRENT	45	mA
POWER DISSIPATION	105	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING, STORAGE TEMP.	-40 TO +85	°C

\*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>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION MAX= <sup>+0.00</sup> <sub>-0.00</sub> DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV.	PART NUMBER
A	SSP-04MWB9L2

CONFIDENTIAL INFORMATION  
THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF SUNBRITE LEDS. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY SUNBRITE LEDS, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.

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.



LED MINIATURE WEDGE BASE LAMP, WHITE.

DRAWN:	CHECKED:	APPROVED:	DATE:
BC			
			PAGE: 1 OF 1