



Sunbrite Product Gallery

COMPLETE SOLID STATE, ENERGY EFFICIENT LIGHTING SOLUTIONS

LED Miniature Wedge Base Water Clear Lens

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



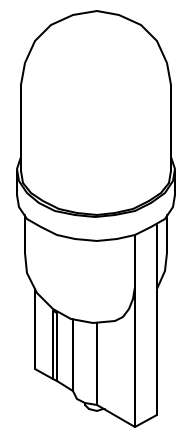
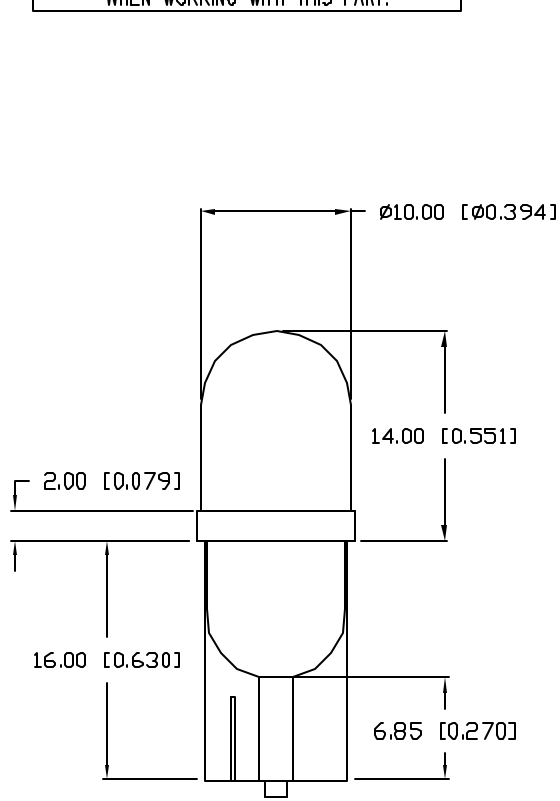
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Part Numbers:	Emitted Color	Wavelength (nm)	Material	Unit LED Intensity mCD per die @ 20mA (If)(Typical)	Fwd. Voltage	Standard Common Pin
SSP-01TWB2UPWB12	Ultra Green	525	InGaN/SiC	9,000	12	30
SSP-01TWB3SWB12	Super Yellow	590	AlInGaP	7,000	12	30
SSP-01TWB6UWB12	Ultra Red	626	AlInGaP	8,000	12	30
SSP-01TWB7UWB12	Super Blue	470	InGaN/SiC	7,000	12	30
SSP-01TWB9WB12	Ultra White	-	InGaN/SiC	11,000	12	30

UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SSP-01TWB9WB12		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10897.	

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



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $V_f=12\text{V}$


PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH				nm	
FORWARD VOLTAGE		12	14.0	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY		11000		mcd	$V_f=12\text{V}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	ULTRA WHITE				
EPOXY LENS FINISH:	WATER CLEAR LENS				

LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD VOLTAGE	14	V
⊠ STEADY CURRENT	20	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), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±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. A	PART NUMBER SSP-01TWB9WB12	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.		DATE:
LED MINIATURE WEDGE BASE LAMP, WHITE, WATER CLEAR LENS.		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.		DRAWN: BC CHECKED: APPROVED: DATE: PAGE: 1 OF 1