



We Tame Photons to Work for You!



Products > High Power LEDs > SuperBeamLED



Features / Options

- ▶ State-of-the-Art, High Brightness Chip Technology
- ▶ Choice of Colors and Lens Finishes
- ▶ Maintenance Free Long Life

Applications / Uses

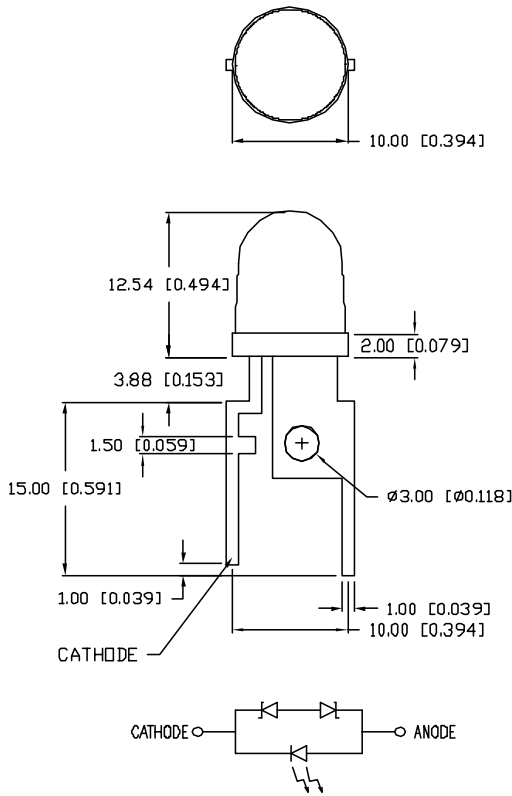
- ▶ Flashlights
- ▶ Illuminating Signs/Artwork
- ▶ Decorative Lighting
- ▶ Backlighting

Part Number:	Brightness	Dice Material	Emitted Color	Peak Wavelength	Epoxy Lens	Operating Typ Vf (V)	Intensity Typ, mcd @ 20 mA	View Angle 2x Theta		
SSL-LX100T123SIC	High	AlInGaP	Red	630	Clear	2.0	35 lm	25		—
SSL-LX100T123SYC	High	AlInGaP	Yellow	590	Clear	2.0	35 lm	25		—
SSL-LX100T123UPGC	High	InGaN	Green	525	Clear	3.5	55 lm	25		—

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PART NUMBER
SSL-LX100T123SYC

REV.



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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			590		nm	
FORWARD VOLTAGE	V_f		2.4	3.0	V	$I_f=350\text{mA}$
REVERSE VOLTAGE	V_r	5			V	$I_f=10\mu\text{A}$
AXIAL INTENSITY	I_v	27	35		lm	$I_f=350\text{mA}$
VIEWING ANGLE				25	2x theta	
EMITTED COLOR:	YELLOW					
EPOXY LENS FINISH:	CLEAR					

LIMITS OF SAFE OPERATION AT 25°C

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	1.4	W
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

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



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*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

REV.	PART NUMBER SSL-LX100T123SYC	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., 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.	
Ø10.00mm 1 WATT THROUGH HOLE, HIGH POWER LED, 590nm AlInGaP YELLOW LED, WATER CLEAR LENS.		RELIABILITY NOTE OUR 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 BY: JN CHECKED BY: APPROVED BY: DATE: 12.19.07 PAGE: 1 OF 1 SCALE: N/A