



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**

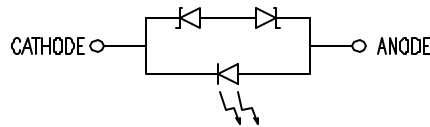
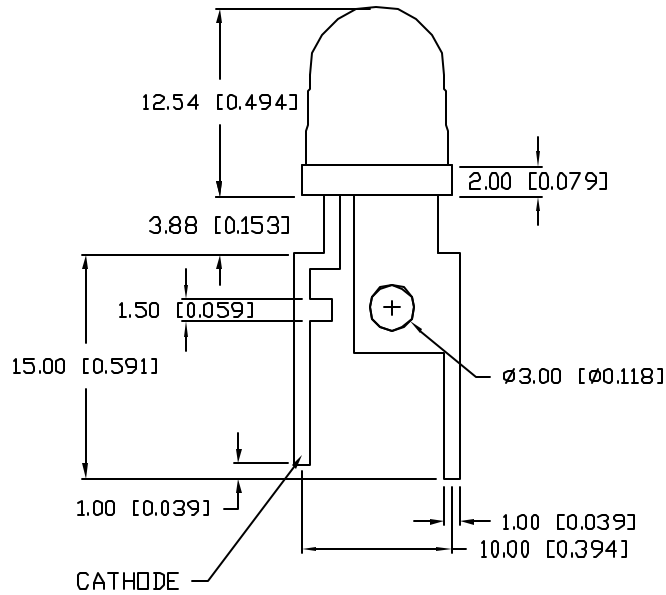
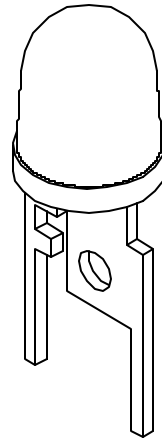
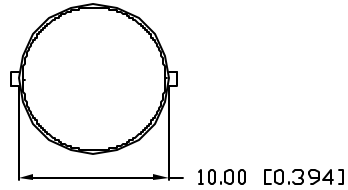
- ▶ Flashlights
- ▶ Illuminating Signs/Artwork
- ▶ Decorative Lighting
- ▶ Backlighting

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	$I_r=10\mu\text{A}$
AXIAL INTENSITY	$I_v$	27	35		lm	$I_f=350\text{mA}$
VIEWING ANGLE			25		$2x \text{ theta}$	
EMITTED COLOR:	YELLOW					
EPOXY LENS FINISH:	CLEAR					

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	1.4	W
DERATE FROM $25^{\circ}\text{C}$	-1.2	mW/ $^{\circ}\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^{\circ}\text{C}$
SOLDERING TEMP. 2.0mm FROM BODY	260	$^{\circ}\text{C}$
	3	SEC

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

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

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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.

ø10.00mm 1 WATT THROUGH HOLE, HIGH POWER LED,  
590nm AlInGaP YELLOW LED, WATER CLEAR LENS.

DRAWN BY:

JN

CHECKED BY:

APPROVED BY:

DATE: 12.19.07

PAGE: 1 OF 1

SCALE: N/A