



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		—

UNCONTROLLED DOCUMENT

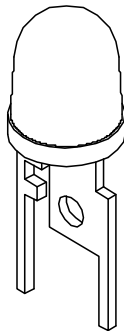
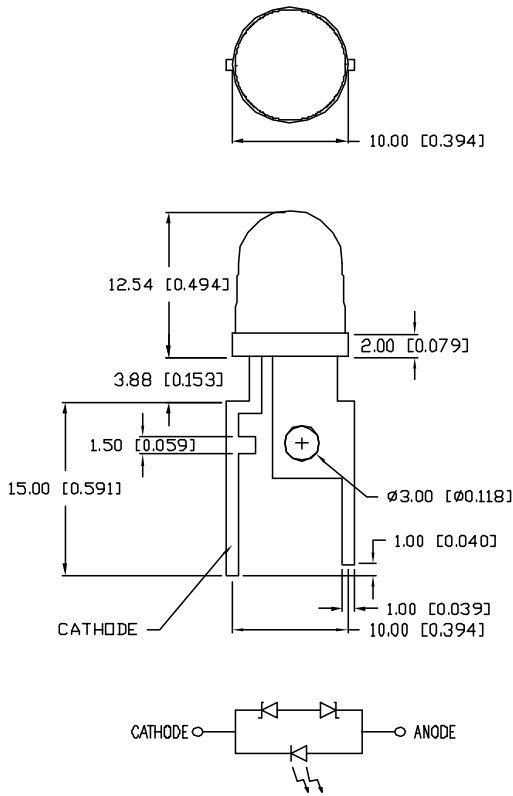
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PART NUMBER

REV.

SSL-LX100T123SIC

PRELIMINARY IN P/N DIR



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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			636		nm	
FORWARD VOLTAGE	V_f		2.0	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		45	lm	$I_f=350\text{mA}$
VIEWING ANGLE			25		2x theta	
EMITTED COLOR:	RED					
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-LX100T123SIC
Ø10.00mm 1 WATT THROUGH HOLE, HIGH POWER LED, 636nm AlInGaP RED LED, WATER CLEAR LENS.	

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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.



DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE: 12.19.07
JN			PAGE: 1 OF 1
			SCALE: N/A