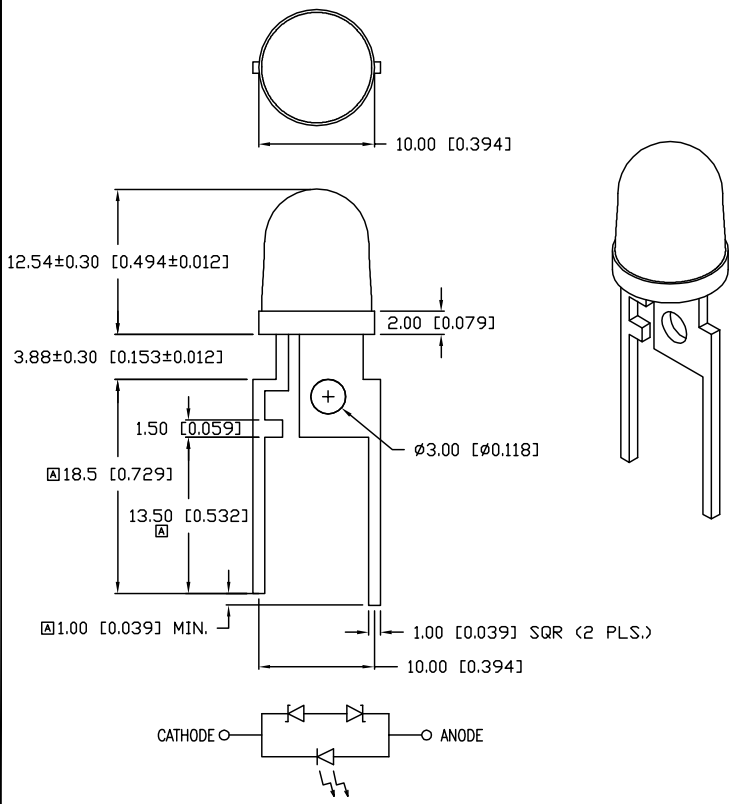


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SSL-LX100T123SIC		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11574	07.08.09



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	$I_f=10\mu\text{A}$
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  $25^{\circ}\text{C}$

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.	260	$^{\circ}\text{C}$
2.0mm FROM BODY	3	SEC

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

\*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=+DECIMAL PRECISION MAX=-DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV. A	PART NUMBER SSL-LX100T123SIC	<p>CONFIDENTIAL INFORMATION</p> <p>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.</p> <p>RELIABILITY NOTE</p> <p>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.</p>	<p><b>LUMEX</b></p> <p>290 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.359.2790 US WEB: www.lumex.com TW WEB: www.lumex.com.tw</p>
<p>φ10.00mm 1 WATT THROUGH HOLE, HIGH POWER LED, 636nm AlInGaP RED LED, WATER CLEAR LENS.</p>		<p>DRAWN BY: JN</p>	<p>CHECKED BY:</p> <p>APPROVED BY:</p> <p>DATE: 12.19.07 PAGE: 1 OF 1 SCALE: N/A</p>