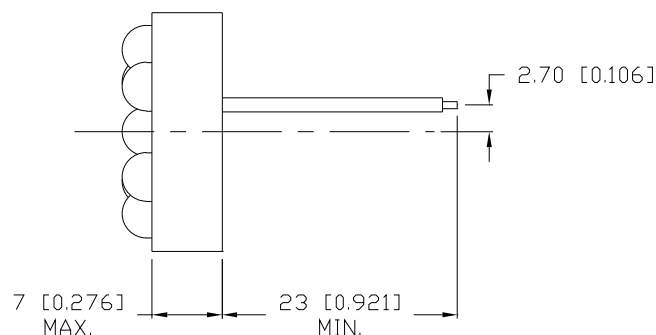
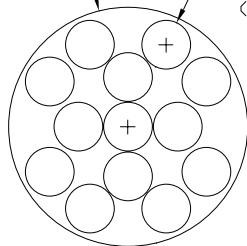


UNCONTROLLED DOCUMENT

PART NUMBER
SSP-LXC0947U13AREV.
B

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10556.	10-13-99
B	E.C.N. #10582.	1-14-00

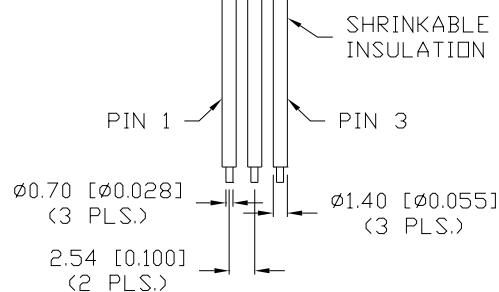
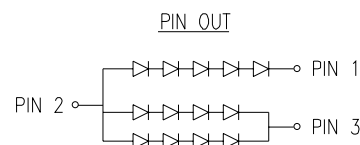
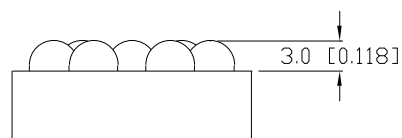
Ø23.80 [Ø0.937]
Ø4.9 [Ø0.191]
(13 PLS.)

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20/40\text{mA}$

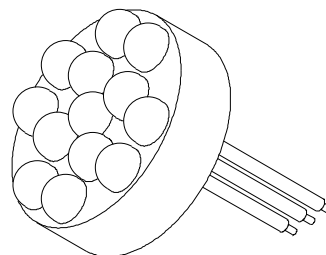
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470		nm	
FORWARD VOLTAGE*		17.5/14	20/16	V_f	
REVERSE VOLTAGE	5.0			V_r	$I_r=100\mu\text{A}$
AXIAL INTENSITY**		2000		mcd	$I_f=20/40\text{mA}$
VIEWING ANGLE		30		2x theta	
EMITTED COLOR:	ULTRA BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

* VOLTAGE FOR: PIN 1/PIN 3

** INTENSITY PER DIE. TEST CONDITION: CURRENT FOR PIN 1/PIN 3

SHRINKABLE
INSULATION

PIN 1 PIN 3



LIMITS OF SAFE OPERATION AT 25°C PER DIE

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	100	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	98	mW
DERATE FROM 25°C	-1.0	mW/°C
OPERATING, STORAGE TEMP.	-30 TO +70	°C
SOLDERING TEMP.	+260	°C
2.0mm FROM BODY	3 SEC. MAX	

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

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.
ESD CLASSIFICATION: CLASS II BASED ON MIL-STD 883E.

UNCONTROLLED DOCUMENT

*TOLERANCES PER DECIMAL PRECISION ARE: $X=\pm 1$ (± 0.039), $XX=\pm 0.5$ (± 0.020), $XXX=\pm 0.25$ (± 0.010). LEAD LENGTH= ± 0.75 (± 0.030), MIN= +DECIMAL PRECISION -0.00, MAX.= +0.00 -DECIMAL PRECISION

REV.

B

PART NUMBER

SSP-LXC0947U13A

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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.

LUMEX
INCORPORATED

290 E. HELLEN ROAD
PALATINE, ILLINOIS 60067
PHONE: (847) 359-2790
WEB: <http://www.lumex.com>

0.94" CIRCULAR, 13 LED CLUSTER,
470nm ULTRA BLUE LEDS,
WATER CLEAR LENS, COMMON ANODE.

DRAWN BY: BC	CHECKED BY:	APPROVED BY:	DATE: 9-21-99
			PAGE: 1 OF 1
			SCALE: N/A