

## Excellent Integrated System Limited

Stocking Distributor

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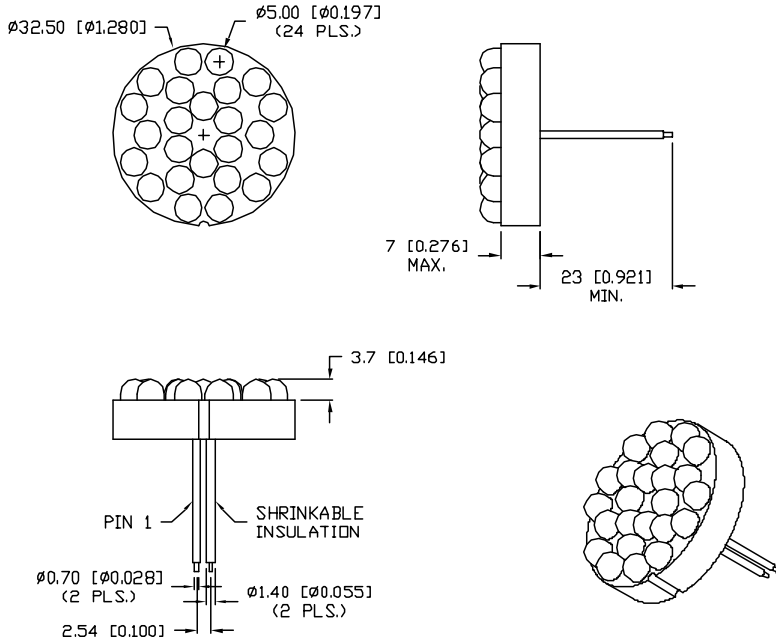
[Lumex, Inc.](#)  
[SSP-LXC1287U24](#)

For any questions, you can email us directly:  
[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

UNCONTROLLED DOCUMENT

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.

PART NUMBER		REV.
SSP-LXC1287U24		B
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10616.	4-20-00
B	E.C.N. #10626.	6-1-00



ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=80\text{mA}$

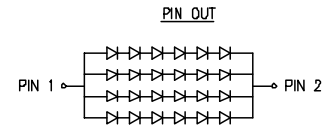
PARAMETER	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH		470		nm	
FORWARD VOLTAGE		21	24	$V_f$	
REVERSE VOLTAGE	5.0			$V_r$	$I_r=100\mu\text{A}$
AXIAL INTENSITY**		2000		mcd	$I_f=80\text{mA}$
VIEWING ANGLE		30		$2x$ theta	
EMITTED COLOR:	ULTRA BLUE				
EPOXY LENS FINISH:	WATER CLEAR				

\*\* INTENSITY PER DIE.

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

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	90	mA
STEADY CURRENT	30	mA
POWER DISSIPATION	98	mW
DERATE FROM $25^{\circ}\text{C}$	-1.0	mW/ $^{\circ}\text{C}$
OPERATING, STORAGE TEMP.	-30 TO +70	$^{\circ}\text{C}$
SOLDERING TEMP.	+260	$^{\circ}\text{C}$
2.0mm FROM BODY		3 SEC. MAX

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



REPLACES PART #: SSP-LXC1287U24A

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= $\pm 1$  ( $\pm 0.038$ ), XX= $\pm 0.5$  ( $\pm 0.020$ ), XXX= $\pm 0.25$  ( $\pm 0.010$ ), XXXX= $\pm 0.127$  ( $\pm 0.005$ ). LEAD SIZE= $\pm 0.05$  ( $\pm 0.002$ ), LEAD LENGTH= $\pm 0.75$  ( $\pm 0.030$ ). MIN.= $^{+0.000}$ / $^{-0.000}$  DECIMAL PRECISION MAX.= $^{+0.000}$ / $^{-0.000}$  DECIMAL PRECISION

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REV. B	PART NUMBER SSP-LXC1287U24	<p>CONFIDENTIAL INFORMATION</p> <p>THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF SUNBRITE LEDS. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY SUNBRITE LEDS, 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>286 E. HELEN ROAD          PALATINE, IL 60067-6976          PHONE: +1.847.359.2790          FAX: +1.847.359.2867          WEB: www.sunbriteleds.com</p>
1.28" CIRCULAR, 24 LAMP POLYLED, 470nm InGaN/SiC BLUE LEDS, WATER CLEAR LENS.		<p>DRAWN: BC</p> <p>CHECKED:</p> <p>APPROVED:</p> <p>DATE: 1.14.00</p> <p>PAGE: 1 OF 1</p>		