

## Excellent Integrated System Limited

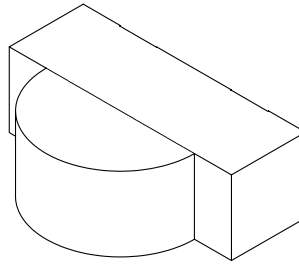
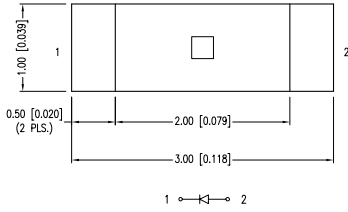
Stocking Distributor

Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)  
[SML-LXR851SRC-TR](#)

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

PART NUMBER	SML-LXR851SRC-TR	REV.	E
DATE	E.C.N. NUMBER AND REVISION COMMENTS		REV.
07.18.00	E.C.N. #10644		A
05.31.01	E.C.N. #10745		B
09.07.04	E.C.N. #10784		C
03.19.04	E.C.N. #10967		D
05.16.11	E.C.N. #11710/10BRDR. & REDRAWN.		E



**[B] ELECTRO-OPTICAL CHARACTERISTICS TA =25°C If=20mA**

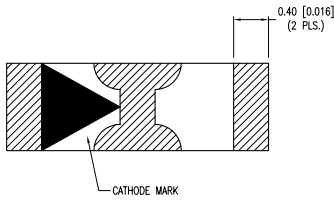
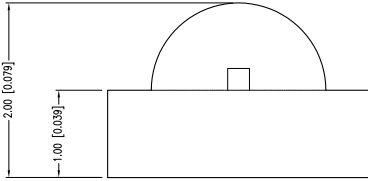
PARAMETER	MIN	TYP.	MAX	UNITS	TEST COND
PEAK WAVELENGTH		660		nm	
FORWARD VOLTAGE		1.7	2.2	Vf	
REVERSE VOLTAGE	5.0			Vr	If=100uA
AXIAL INTENSITY		33		mcd	If=20mA
VIEWING ANGLE		160		2x theta	
EMITTED COLOR:	RED				
EPOXY LENS FINISH:	WATER CLEAR				

**[B] LIMITS OF SAFE OPERATION AT 25°C**

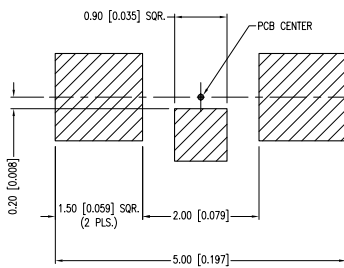
PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	160	mA
STEADY CURRENT	25	mA
POWER DISSIPATION	80	mW
DERATE FROM 25°C	-1.2	mW/°C
OPERATING TEMP.	-40 TO +85	°C
STORAGE TEMP.	-40 TO +90	°C

\* I<sub>T</sub>10uS

**[E] [D] CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 2 STANDARDS**



**RECOMMENDED SOLDER PAD LAYOUT**



\*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>+DECIMAL PRECISION</sup><sub>-0.00</sub> MAX.=<sup>+0.00</sup><sub>-DECIMAL PRECISION</sub> UNCONTROLLED DOCUMENT

**LUMEX**  
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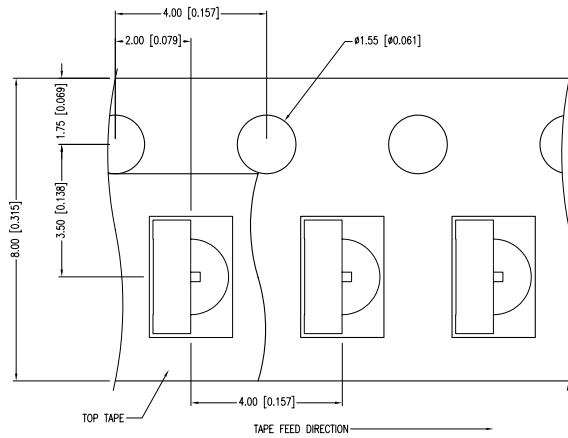
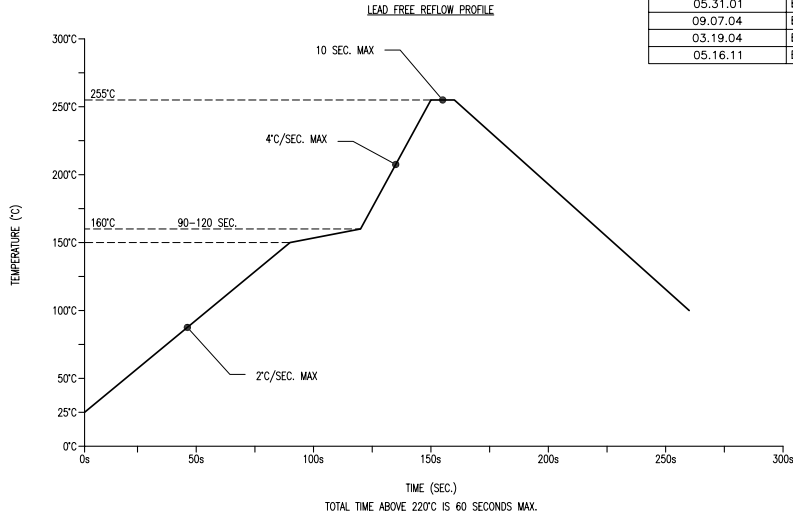
1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 660nm SUPER RED, WATER CLEAR LENS, TAPE & REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*  
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DATE:	05.16.11	DRAWN BY:	AB
PAGE:	1 OF 2	CHKD BY:	KF
SCALE:	NTS	APRVD BY:	SS
UNIT:	mm [INCH]		

UNCONTROLLED DOCUMENT

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- NOTES:
- 2,000 PER REEL.
  - THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

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