

Excellent Integrated System Limited

Stocking Distributor

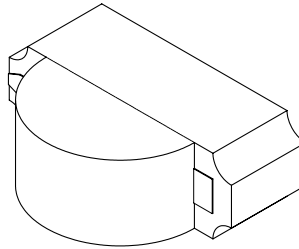
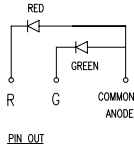
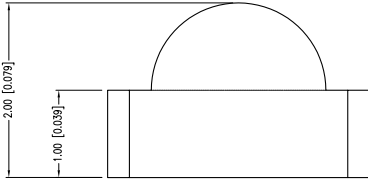
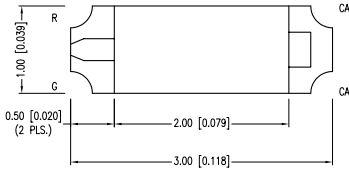
Click to view price, real time Inventory, Delivery & Lifecycle Information:

[Lumex, Inc.](#)
[SML-LXR851SISGC-TR](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

UNCONTROLLED DOCUMENT

| PART NUMBER | SML-LXR851SISGC-TR | REV. | D |
|-------------|-------------------------------------|------|------|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | REV. |
| 05.16.02 | E.C.N. #10865. | | A |
| 09.07.04 | E.C.N. #10967. | | B |
| 10.03.08 | E.C.N. #11148. | | C |
| 05.16.11 | E.C.N. #11710/10BRDR. & REDRAWN. | | D |



ELECTRO-OPTICAL CHARACTERISTICS TA = 25°C If = 20mA

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|-------------|---------|-----|----------|-----------|
| PEAK WAVELENGTH (R/G) | | 636/565 | | nm | |
| FORWARD VOLTAGE (R/G) | | 2.0/2.1 | 2.4 | Vf | If=100mA |
| REVERSE VOLTAGE | 5.0 | | | Vr | If=20mA |
| AXIAL INTENSITY (R/G) | | 50/20 | | mcd | If=20mA |
| VIEWING ANGLE | | 120 | | 2x theta | |
| EMITTED COLOR: | RED/GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

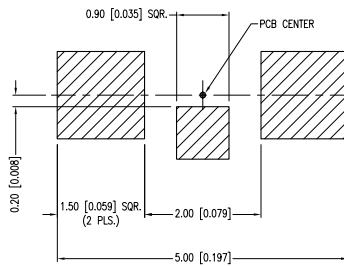
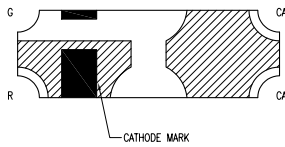
| PARAMETER | MAX | UNITS |
|-------------------------|------------|-------|
| PEAK FORWARD CURRENT* | 160 | mA |
| STEADY CURRENT (R/G) | 30/25 | mA |
| POWER DISSIPATION (R/G) | 60/100 | mW |
| DERATE FROM 25°C | -1.2 | mW/°C |
| OPERATING TEMP. | -40 TO +85 | °C |
| STORAGE TEMP. | -40 TO +90 | °C |

* 1<10µs

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 2 STANDARDS

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

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= +DECIMAL PRECISION MAX.= -DECIMAL PRECISION UNCONTROLLED DOCUMENT

LUMEX
Creating LED and LCD Solutions Together™
290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
FAX: +1.847.359.6538
WEB: WWW.LUMEX.COM

1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 636/565nm RED/GREEN, WATER CLEAR LENS, TAPE & REEL.

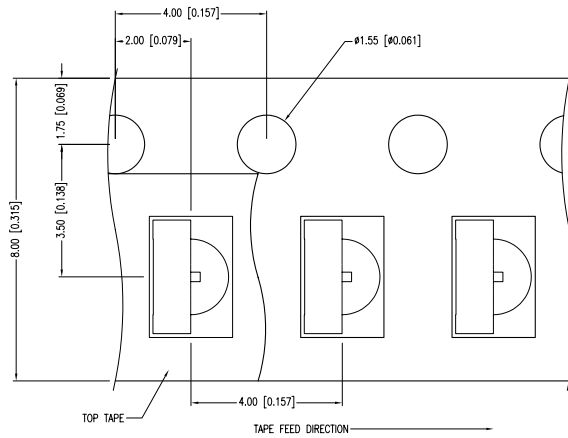
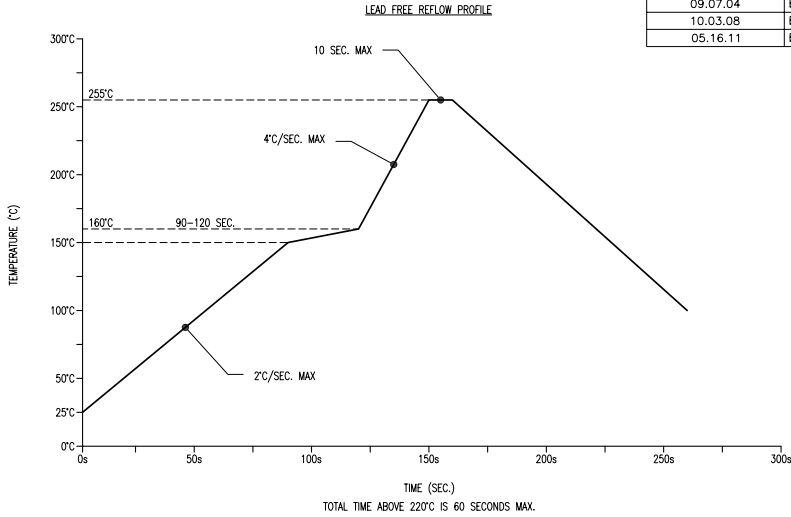
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION
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.

| | | | |
|--------|-----------|-----------|----|
| DATE: | 05.16.11 | DRAWN BY: | AB |
| PAGE: | 1 OF 2 | CHKD BY: | KF |
| SCALE: | NTS | APRVD BY: | SS |
| UNIT: | mm [INCH] | | |

UNCONTROLLED DOCUMENT

| PART NUMBER | SML-LXR851SISGC-TR | REV. | D |
|-------------|-------------------------------------|------|------|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | REV. |
| 05.16.02 | E.C.N. #10865. | | A |
| 09.07.04 | E.C.N. #10967. | | B |
| 10.03.08 | E.C.N. #11148. | | C |
| 05.16.11 | E.C.N. #11710/10BRDR. & REDRAWN. | | D |



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

*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 MAX.= -DECIMAL PRECISION

LUMEX
 Creating LED and LCD Solutions Together™
 290 E. HELEN ROAD
 PALATINE, IL 60067-6976
 PHONE: +1.847.359.2790
 FAX: +1.847.359.6538
 WEB: WWW.LUMEX.COM

1.0x3.0mm PCB RIGHT ANGLE SURFACE MOUNT LED, 636/565nm RED/GREEN, WATER CLEAR LENS, TAPE & REEL.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

CONFIDENTIAL INFORMATION

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.

UNCONTROLLED DOCUMENT

| | | | |
|--------|-----------|-----------|----|
| DATE: | 05.16.11 | DRAWN BY: | AB |
| PAGE: | 2 OF 2 | CHKD BY: | KF |
| SCALE: | NTS | APRVD BY: | SS |
| UNIT: | mm [INCH] | | |