

## Excellent Integrated System Limited

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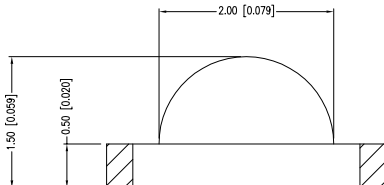
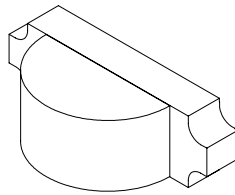
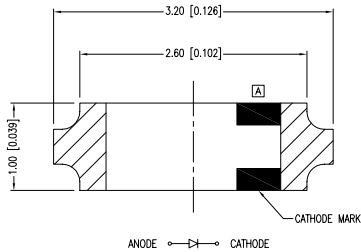
[SML-LXR85USBC-TR](#)

For any questions, you can email us directly:

[sales@integrated-circuit.com](mailto:sales@integrated-circuit.com)

UNCONTROLLED DOCUMENT

| PART NUMBER | SML-LXR85USBC-TR                    | REV. | C      |
|-------------|-------------------------------------|------|--------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      |        |
| 07.30.01    | E.C.N. #10BRDR. / #10771.           |      | REV. A |
| 08.12.05    | E.C.N. #11248.                      |      | B      |
| 03.18.11    | E.C.N. #10BRDR. & REDRAWN / #11704. |      | C      |



| ELECTRO-OPTICAL CHARACTERISTICS TA = 25°C If = 20mA |             |      |     |          |           |
|-----------------------------------------------------|-------------|------|-----|----------|-----------|
| PARAMETER                                           | MIN         | TYP. | MAX | UNITS    | TEST COND |
| PEAK WAVELENGTH                                     |             | 470  |     | nm       |           |
| FORWARD VOLTAGE                                     |             | 3.5  | 4.0 | Vf       |           |
| REVERSE VOLTAGE                                     | 5.0         |      |     | Vr       | If=100uA  |
| AXIAL INTENSITY                                     |             | 30   |     | mcd      | If=20mA   |
| VIEWING ANGLE                                       |             | 160  |     | 2x theta |           |
| EMITTED COLOR:                                      | BLUE        |      |     |          |           |
| EPOXY LENS FINISH:                                  | WATER CLEAR |      |     |          |           |

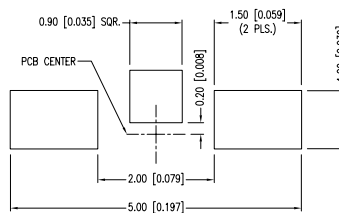
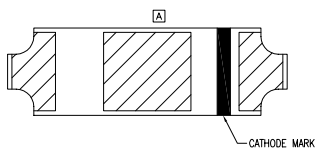
| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 100        | mA    |
| STEADY CURRENT                   | 25         | mA    |
| POWER DISSIPATION                | 80         | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING TEMP.                  | -25 TO +85 | °C    |
| STORAGE TEMP.                    | -30 TO +85 | °C    |

\* t<10pS

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.

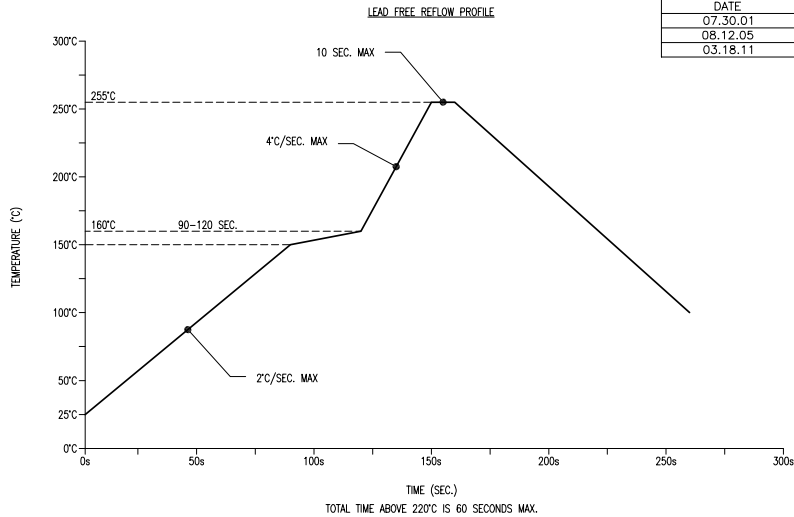
RECOMMENDED SOLDER PAD LAYOUT



|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |              |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
| <p>*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= -0.00 DECIMAL PRECISION MAX= +0.00 DECIMAL PRECISION</p> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNCONTROLLED DOCUMENT |              |
| <p><b>LUMEX</b><br/>Creating LED and LCD Solutions Together™</p> <p>290 E. HELEN ROAD<br/>PALATINE, IL 60067-6976<br/>PHONE: +1.847.359.2790<br/>FAX: +1.847.359.6538<br/>WEB: WWW.LUMEX.COM</p>                                                                       | <p>0.5mm x 3.2mm PCB, RIGHT ANGLE SURFACE MOUNT LED, 470nm BLUE, WATER CLEAR LENS, 3K PER REEL.</p> <p>**THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**</p> <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> | DATE: 03.18.11        | DRAWN BY: AB |
|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | PAGE: 1 OF 2          | CHKD BY: JD  |
|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | SCALE: NTS            | APRVD BY: JD |
|                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | UNIT: mm [INCH]       |              |

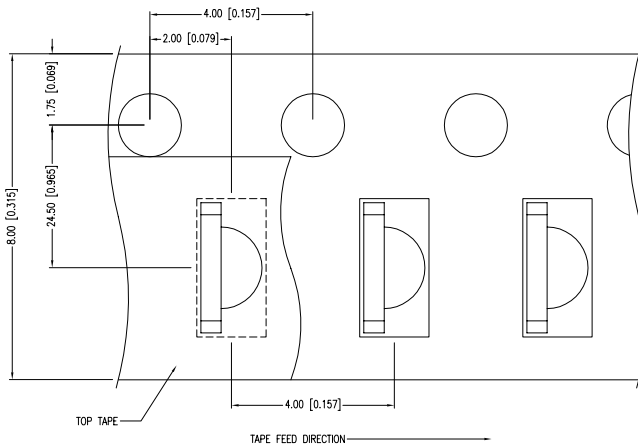
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NOTES:

- 3,000 PIECES PER REEL.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.



|                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                       |              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|
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