

## Excellent Integrated System Limited

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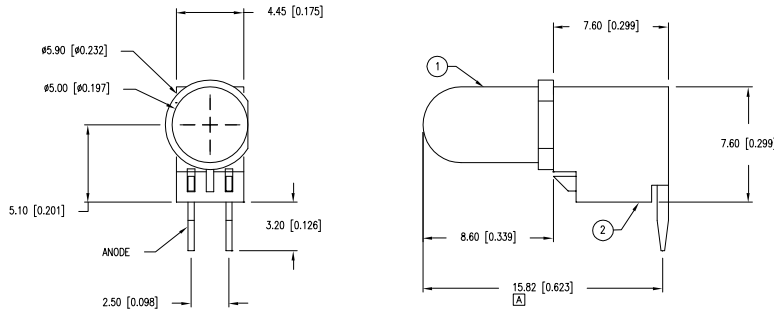
[Lumex, Inc.](#)  
[SSF-LXH4RA5LID](#)

For any questions, you can email us directly:

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

UNCONTROLLED DOCUMENT

| PART NUMBER | SSF-LXH4RA5LID                      | REV. | A |
|-------------|-------------------------------------|------|---|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      |   |
| 07.05.95    | UPDATED SPECS. & DIM WHERE NOTED./  |      |   |
|             |                                     |      | A |



| ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$ |              |     |     |           |                      |
|--------------------------------------------------------------------------|--------------|-----|-----|-----------|----------------------|
| PARAMETER                                                                | MIN          | TYP | MAX | UNITS     | TEST COND            |
| PEAK WAVELENGTH                                                          |              | 635 |     | nm        |                      |
| FORWARD VOLTAGE                                                          |              | 2.1 | 2.8 | $V_f$     |                      |
| REVERSE VOLTAGE                                                          | 5.0          |     |     | $V_r$     | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY                                                          | 1.0          | 40  |     | mcd       | $I_f=20\text{mA}$    |
| VIEWING ANGLE                                                            |              | 60  |     | $2\theta$ | $I_f=2\text{mA}$     |
| EMITTED COLOR:                                                           | RED          |     |     |           |                      |
| EPOXY LENS FINISH:                                                       | RED DIFFUSED |     |     |           |                      |

| LIMITS OF SAFE OPERATION AT $25^\circ\text{C}$ |            |                            |
|------------------------------------------------|------------|----------------------------|
| PARAMETER                                      | MAX        | UNITS                      |
| PEAK FORWARD CURRENT*                          | 150        | mA                         |
| STEADY CURRENT                                 | 30         | mA                         |
| POWER DISSIPATION                              | 105        | mW                         |
| DERATE FROM $25^\circ\text{C}$                 | -1.2       | $\text{mW}/^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.                       | -40 TO +85 | $^\circ\text{C}$           |
| SOLDERING TEMP.                                | +260       | $^\circ\text{C}$           |
| 2.0mm FROM BODY                                | 3          | SEC. MAX                   |

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

- NOTES:  
1. SSL-LX5093LID LED.  
2. IFS-LX4FRA-1 LAMP SOCKET.  
3. CUT LED LEADS 5mm LONG.  
4. ASSEMBLE IN SOCKET, POLARITY AS SHOWN.

\*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

|                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                          |  |                 |              |
|----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------|--------------|
| <b>LUMEX</b><br>Creating LED and LCD Solutions Together™ | 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 | T-1 3/4 LAMP, RED FAULT INDICATOR, LOW CURRENT SELECTION                                                                                                                                                                                                                                                                                                 |  | DATE: 08.23.93  | DRAWN BY: JH |
|                                                          |                                                                                                                      | **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.**                                                                                                                                                                                                                                                |  | PAGE: 1 OF 1    | CHKD BY: JD  |
|                                                          |                                                                                                                      | CONFIDENTIAL INFORMATION<br>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. |  | SCALE: N/A      | APRVD BY: KF |
|                                                          |                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                          |  | UNIT: mm [INCH] | ®            |