

## Excellent Integrated System Limited

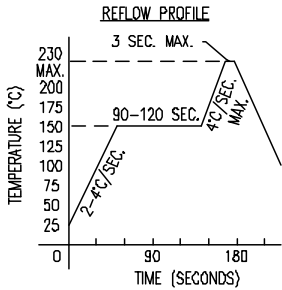
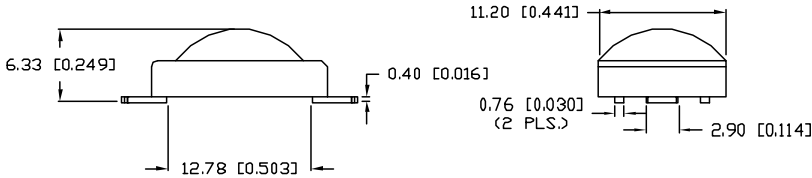
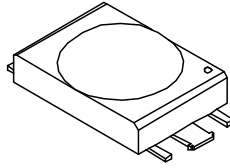
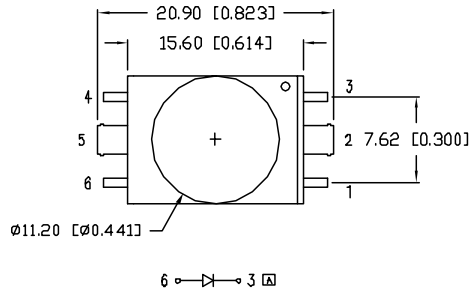
Stocking Distributor

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

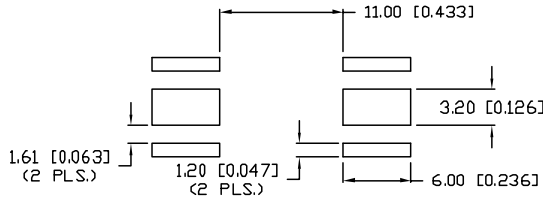
[Lumex, Inc.](#)  
[SSP-LX6144D2UPC](#)

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

UNCONTROLLED DOCUMENT



RECOMMENDED SOLDER PAD LAYOUT



|                 |                                     |          |
|-----------------|-------------------------------------|----------|
| PART NUMBER     |                                     | REV.     |
| SSP-LX6144D2UPC |                                     | A        |
| REV.            | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A               | E.C.N. #11073.                      | 12.31.03 |

| ELECTRO-OPTICAL CHARACTERISTICS T <sub>A</sub> =25°C I <sub>f</sub> =120mA |             |     |     |                |                       |
|--|-------------|-----|-----|----------------|-----------------------|
| PARAMETER  | MIN         | TYP | MAX | UNITS          | TEST COND             |
| PEAK WAVELENGTH  |             | 525 |     | nm             |                       |
| FORWARD VOLTAGE  |             | 3.4 | 4.0 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE  | 5.0         |     |     | V <sub>r</sub> | I <sub>r</sub> =100µA |
| AXIAL INTENSITY  |             | 1.6 |     | cd             | I <sub>f</sub> =120mA |
| TOTAL FLUX   |             | 2.5 |     | Lm             | I <sub>f</sub> =120mA |
| VIEWING ANGLE  |             | 100 |     | 2x theta       |                       |
| EMITTED COLOR:   | GREEN       |     |     |                |                       |
| EPOXY LENS FINISH:   | WATER CLEAR |     |     |                |                       |

| LIMITS OF SAFE OPERATION AT 25°C |            |       |
|----------------------------------|------------|-------|
| PARAMETER                        | MAX        | UNITS |
| PEAK FORWARD CURRENT*            | 250        | mA    |
| STEADY CURRENT                   | 120        | mA    |
| POWER DISSIPATION                | 420        | mW    |
| DERATE FROM 25°C                 | -1.2       | mW/°C |
| OPERATING TEMP.                  | -20 TO +80 | °C    |
| STORAGE TEMP.                    | -35 TO +85 | °C    |

\* t < 10µS

NOTES:

1. PARTS ARE PACKAGED IN ANTI-STATIC TUBES.

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

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.030), 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), NN=±0.001 (±0.0005) DECIMAL PRECISION MAX.=±0.001 (±0.0005) DECIMAL PRECISION

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|  |                 |
|--|-----------------|
| REV.   | PART NUMBER     |
| A  | SSP-LX6144D2UPC |
| LOW PROFILE SMT, 100° VIEWING LUXLED,™<br>525nm GREEN, WATER CLEAR LENS. |                 |

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**RELIABILITY NOTE**  
 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.



|   |               |
|---|---------------|
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| DRAWN:  | CHECKED:      |
| APPROVED:   | DATE: 7.18.03 |
| BC  | PAGE: 1 OF 1  |