

Excellent Integrated System Limited

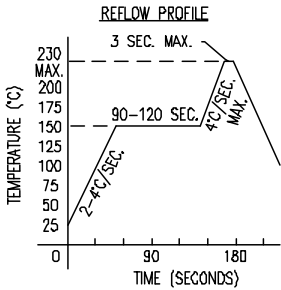
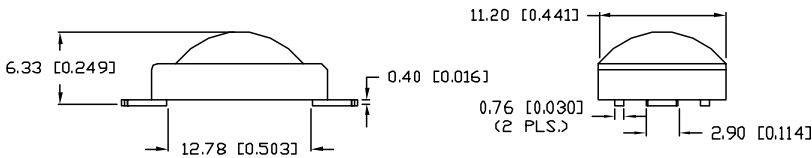
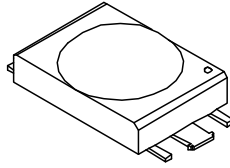
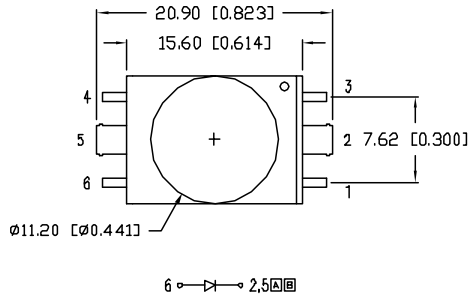
Stocking Distributor

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

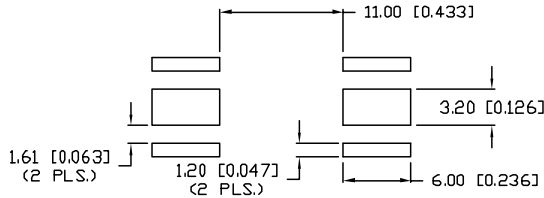
[Lumex, Inc.](#)
[SSP-LX6144D6UC](#)

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

UNCONTROLLED DOCUMENT



RECOMMENDED SOLDER PAD LAYOUT



| | | |
|----------------|-------------------------------------|----------|
| PART NUMBER | | REV. |
| SSP-LX6144D6UC | | B |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #11073. | 12.31.03 |
| B | E.C.N. #11102. | 2.27.04 |

ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=120\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|------------|----------------------|
| PEAK WAVELENGTH | | 626 | | nm | |
| FORWARD VOLTAGE | | 2.4 | 2.8 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | | 3.2 | | cd | $I_f=120\text{mA}$ |
| TOTAL FLUX | | 2.5 | | Lm | $I_f=120\text{mA}$ |
| VIEWING ANGLE | | 100 | | $2x$ theta | |
| EMITTED COLOR: | RED | | | | |
| 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 | 320 | mW |
| DERATE FROM 25°C | -1.2 | $\text{mW}/^\circ\text{C}$ |
| OPERATING TEMP. | -20 TO +80 | $^\circ\text{C}$ |
| STORAGE TEMP. | -35 TO +85 | $^\circ\text{C}$ |

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

NOTES:

- PARTS ARE PACKAGED IN ANTI-STATIC TUBES.

*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=+DECIMAL PRECISION MAX.=+0.00 -0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

| | |
|--|----------------|
| REV. | PART NUMBER |
| B | SSP-LX6144D6UC |
| LOW PROFILE SMT, 100° VIEWING $L_{ux}LED$,™ 626nm RED, WATER CLEAR LENS. | |

CONFIDENTIAL INFORMATION
 THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF SUNBRITE LEDS. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY SUNBRITE LEDS, 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.
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.



| | | | | |
|---|-----------|----------|-----------|-------------------------------|
| 286 E. HELEN ROAD PALATINE, IL 60067-6976 PHONE: +1.847.348.3116 FAX: +1.847.359.2867 WEB: www.sunbriteleds.com | DRAWN: BC | CHECKED: | APPROVED: | DATE: 7.18.03 PAGE: 1 OF 1 |
|---|-----------|----------|-----------|-------------------------------|