

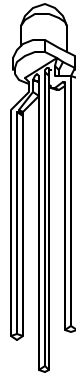
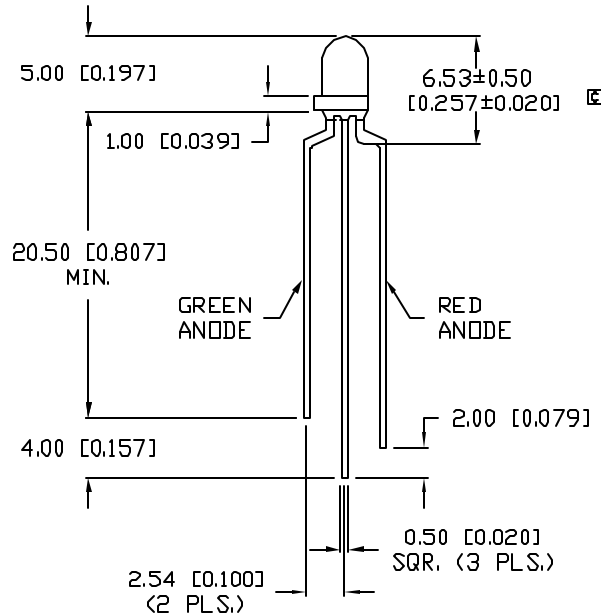
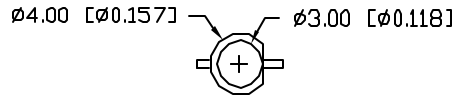


**THE DATASHEET OF
SSL-LX3059SRSGW**



UNCONTROLLED DOCUMENT

| | | |
|-----------------|-------------------------------------|--------|
| PART NUMBER | | REV. |
| SSL-LX3059SRSGW | | C |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10BRDR. & REDRAWN. | 1.9.98 |
| B | E.C.N. #10700. | 1.9.01 |
| C | E.C.N. #11412. | 5.1.07 |



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=20\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|-------------|-------------|---------|------------|----------------------|
| PEAK WAVELENGTH | | 660 (RED) | | nm | |
| | | 565 (GREEN) | | nm | |
| FORWARD VOLTAGE (R/G) | | 1.7/2.2 | 2.2/2.6 | V_f | |
| REVERSE VOLTAGE (R/G) | 4.0/5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G) | | 180/30 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 60 | | $2x$ theta | |
| EMITTED COLOR: | RED/GREEN | | | | |
| EPOXY LENS FINISH: | MILKY WHITE | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | COLORS | MAX | UNITS |
|--------------------------------|--------|------------|----------------------|
| PEAK FORWARD CURRENT* | | 150 | mA |
| STEADY CURRENT | (R/G) | 30/25 | mA |
| POWER DISSIPATION | (R/G) | 100/105 | mW |
| DERATE FROM 25°C | | -1.6 | 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 |

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

*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=±0.08 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN=+0.00, MAX=-0.00

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| | |
|------|-----------------|
| REV. | PART NUMBER |
| C | SSL-LX3059SRSGW |

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T-3mm TRI-LEADED LED, BICOLOR SUPER RED/SUPER GREEN,
 COMMON CATHODE, MILKY WHITE DIFFUSED LENS.

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.

| | | | |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| JC | | | 8.14.95 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |

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- ✓ Alternative Solution
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