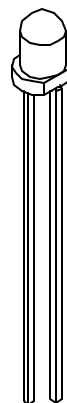
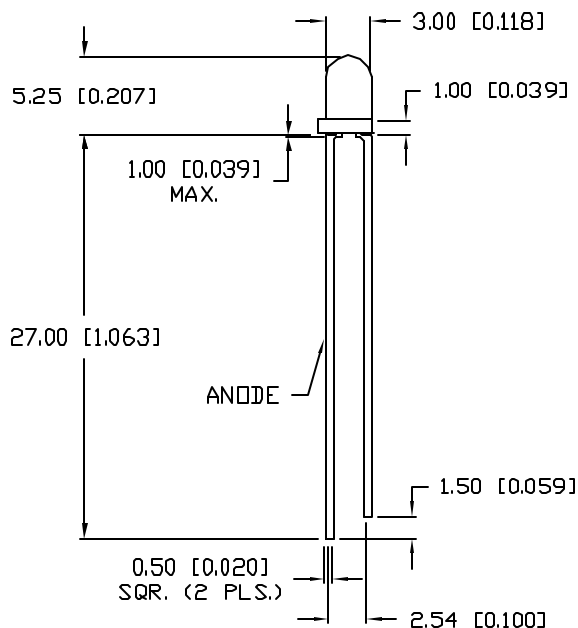
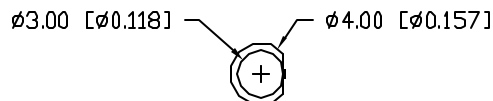


UNCONTROLLED DOCUMENT

PART NUMBER
SSL-LX3054IT-12V

REV.
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|---------|
| A | E.C.N. #10BRDR. & REDRAWN IN 3D. | 4.16.01 |



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $V_f=12\text{V}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-----------------|------|------|----------|----------------------|
| PEAK WAVELENGTH | | 635 | | nm | |
| FORWARD VOLTAGE | | 12.0 | 14.0 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY | | 50 | | mcd | $V_f=12\text{V}$ |
| VIEWING ANGLE | | 30 | | 2x theta | |
| EMITTED COLOR: | RED | | | | |
| EPOXY LENS FINISH: | RED TRANSPARENT | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|----------------------------------|------------|------------------------|
| PEAK FORWARD VOLTAGE* | 14 | V |
| STEADY CURRENT | 12 | mA |
| POWER DISSIPATION | 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), 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), MIN= ^{+0.00} _{-0.00} DECIMAL PRECISION, MAX= ^{+0.00} _{-0.00} DECIMAL PRECISION

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REV. A PART NUMBER SSL-LX3054IT-12V

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T-3mm (T-1) 635nm RED LED,
RED TRANSPARENT LENS, 12 VOLT OPERATION.

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: BC | CHECKED BY: | APPROVED BY: | DATE: 9.27.00 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |