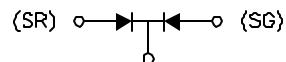
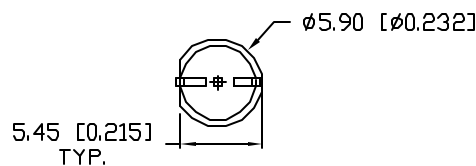
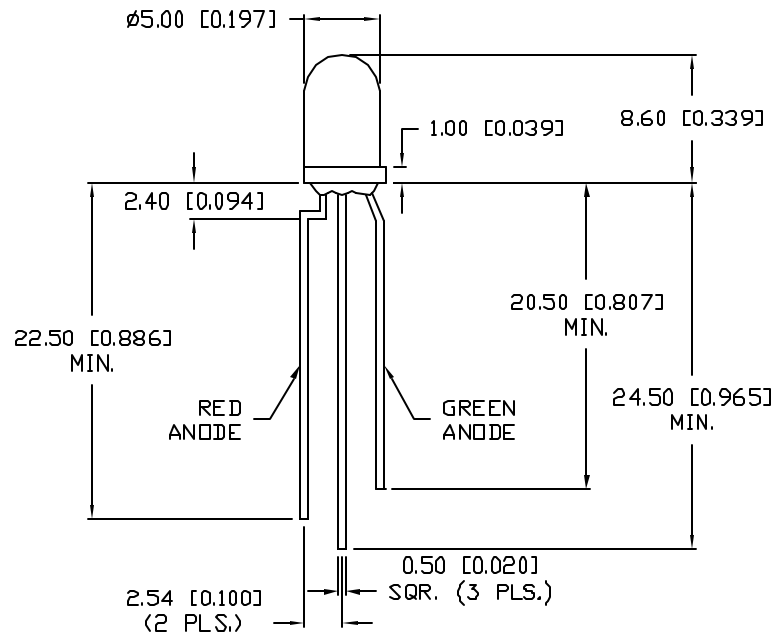


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|                   |                                     |          |
|-------------------|-------------------------------------|----------|
| PART NUMBER       |                                     | REV.     |
| SSL-LX5099SRSGC/R |                                     | A        |
| REV.              | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
| A                 | E.C.N. #11148.                      | 11.08.06 |



COMMON CATHODE

| 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                                                          | 5.0         |             |         | $V_r$           | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G)                                                    |             | 500/140     |         | mcd             | $I_f=20\text{mA}$    |
| VIEWING ANGLE                                                            |             | 30          |         | $2\times\theta$ |                      |
| EMITTED COLOR:                                                           | RED/GREEN   |             |         |                 |                      |
| EPOXY LENS FINISH:                                                       | WATER CLEAR |             |         |                 |                      |

| LIMITS OF SAFE OPERATION AT $25^\circ\text{C}$ |        |            |                      |
|------------------------------------------------|--------|------------|----------------------|
| 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 $25^\circ\text{C}$                 |        | -1.2       | 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=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN=+DECIMAL PRECISION MAX=+0.00 -DECIMAL PRECISION

|                                                                                          |                   |
|------------------------------------------------------------------------------------------|-------------------|
| REV.                                                                                     | PART NUMBER       |
| A                                                                                        | SSL-LX5099SRSGC/R |
| T-5mm (T-1 3/4) LED, SUPER RED/SUPER GREEN BICOLOR,<br>WATER CLEAR LENS, COMMON CATHODE. |                   |

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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 BY: | CHECKED BY: | APPROVED BY: | DATE: 11.08.06 |
| JC        |             |              | PAGE: 1 OF 1   |
|           |             |              | SCALE: N/A     |



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