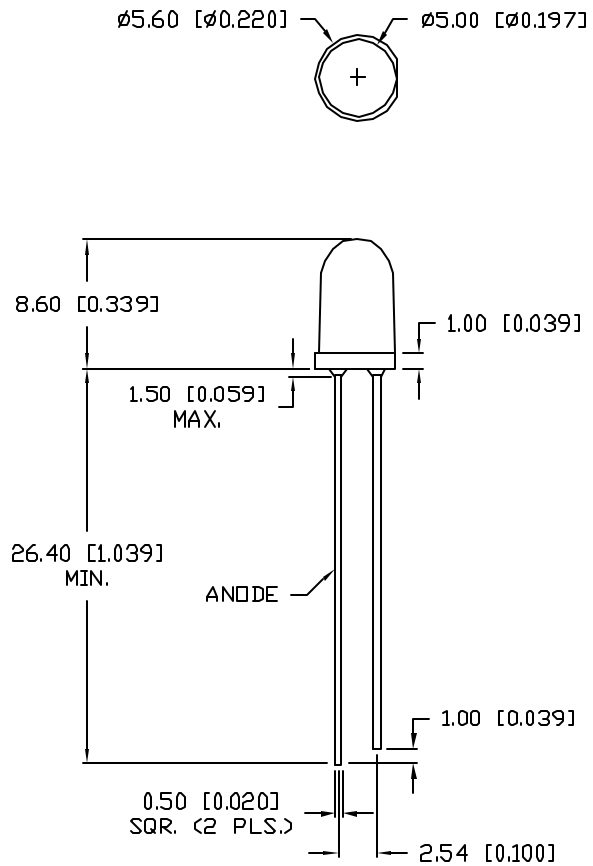


UNCONTROLLED DOCUMENT

| | | |
|------------------|-------------------------------------|----------|
| PART NUMBER | | REV. |
| SSL-LX5093XSGC/B | | B |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10BRDR. & REDRAWN IN 3D. | 5.18.01 |
| B | E.C.N. #11148 | 10.30.06 |



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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH | | 565 | | nm | |
| FORWARD VOLTAGE | | 2.2 | 2.6 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | | 600 | | med | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 10 | | 2x theta | |
| EMITTED COLOR: | GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|--------------------------|------------|------------|
| PEAK FORWARD CURRENT* | 100 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 98 | mW |
| DERATE FROM 25°C | -1.2 | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C |
| SOLDERING TEMP. | +260 | °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.=^{+0.00}/_{-0.00} MAX.=^{+0.00}/_{-0.00}

UNCONTROLLED DOCUMENT

| | |
|------|------------------|
| REV. | PART NUMBER |
| B | SSL-LX5093XSGC/B |

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T-5mm (T-1 3/4) 565nm SUPER GREEN LED,
 WATER CLEAR TAPERED 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: 10.30.06 |
| JC | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |