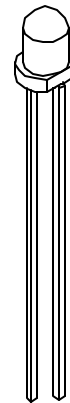
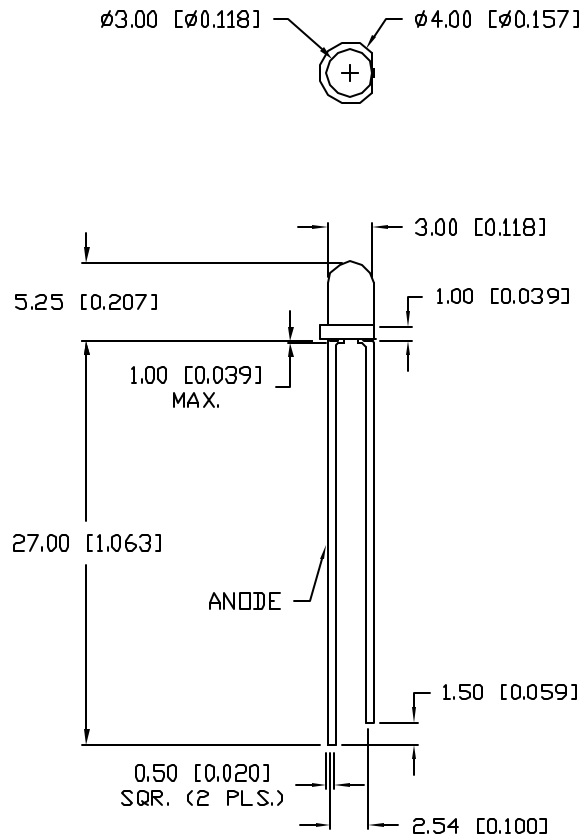


UNCONTROLLED DOCUMENT

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.

PART NUMBER  
SSL-LX3054USBC-12V

REV.

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

| PARAMETER          | MIN         | TYP  | MAX  | UNITS    | TEST COND            |
|--------------------|-------------|------|------|----------|----------------------|
| PEAK WAVELENGTH    |             | 470  |      | nm       |                      |
| FORWARD VOLTAGE    |             | 12.0 | 14.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |      |      | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |             | 500  |      | mcd      | $V_f=12\text{V}$     |
| VIEWING ANGLE      |             | 30   |      | 2x theta |                      |
| EMITTED COLOR:     | BLUE        |      |      |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |      |      |          |                      |

LIMITS OF SAFE OPERATION AT  $25^{\circ}\text{C}$  PER DIE

| PARAMETER                        | MAX        | UNITS                  |
|----------------------------------|------------|------------------------|
| PEAK FORWARD VOLTAGE             | 14         | V                      |
| STEADY CURRENT                   | 12         | mA                     |
| POWER DISSIPATION                | 98         | mW                     |
| DERATE FROM $25^{\circ}\text{C}$ | -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             |

\*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

SSL-LX3054USBC-12V

T-3mm (T-1) 470nm ULTRA SUPER BLUE LED,  
12V OPERATION, WATER CLEAR LENS.

## CONFIDENTIAL INFORMATION

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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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PAGE: 1 OF 1

SCALE: N/A