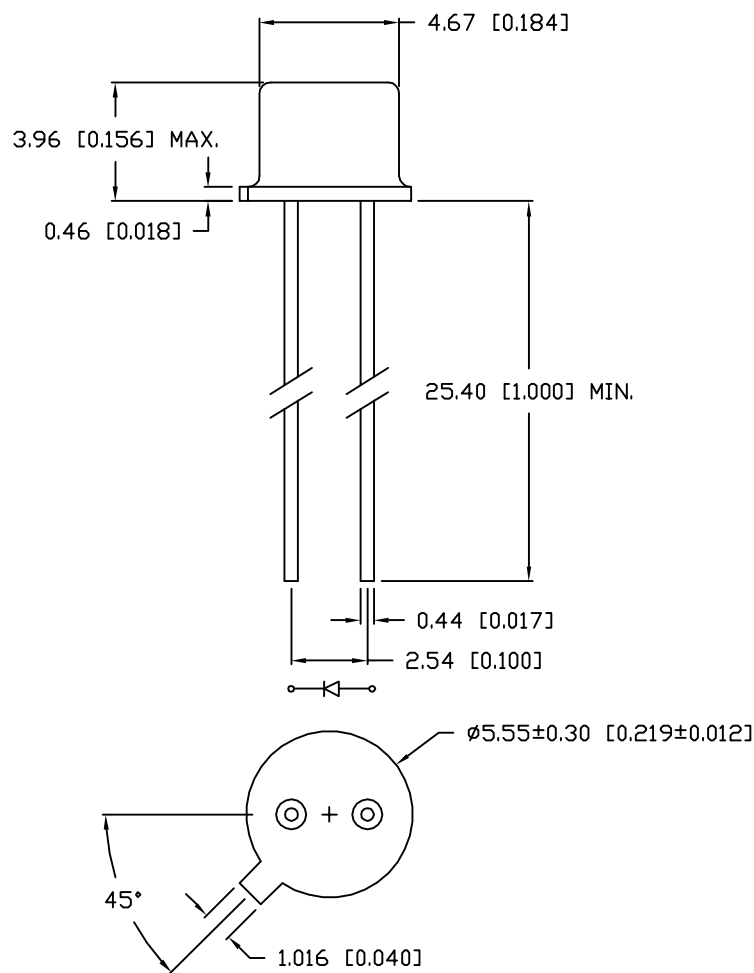


ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $I_f=20\text{mA}$ 

| PARAMETER          | MIN          | TYP | MAX | UNITS | TEST COND          |
|--------------------|--------------|-----|-----|-------|--------------------|
| PEAK WAVELENGTH    | 380          | 385 | 390 | nm    |                    |
| FORWARD VOLTAGE    |              | 3.3 | 3.6 | $V_f$ |                    |
| REVERSE VOLTAGE    | 5.0          |     |     | $V_r$ | $I_r=1\mu\text{A}$ |
| TOTAL POWER OUTPUT | 2.0          | 4.0 |     | mW    | $I_f=20\text{mA}$  |
| EMITTED COLOR:     | ULTRA VIOLET |     |     |       |                    |
| GLASS LENS FINISH: | WATER CLEAR  |     |     |       |                    |

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

| PARAMETER                | MAX         | UNITS              |
|--------------------------|-------------|--------------------|
| PEAK FORWARD CURRENT*    | 120         | mA                 |
| STEADY CURRENT           | 30          | mA                 |
| POWER DISSIPATION        | 200         | mW                 |
| OPERATING, STORAGE TEMP. | -40 TO +100 | $^{\circ}\text{C}$ |
| SOLDERING TEMP.          | +260        | $^{\circ}\text{C}$ |
| 2.0mm FROM BODY          |             | 3 SEC. MAX         |
| *1/10 DUTY CYCLE @ 1KHz  |             |                    |

## THERMAL PARAMETERS

| PARAMETER                        | VALUE | UNITS                       |
|----------------------------------|-------|-----------------------------|
| MAXIMUM JUNCTION TEMPERATURE     | 125   | $^{\circ}\text{C}$          |
| THERMAL RESISTANCE JUNCTION-AIR  | 400   | $^{\circ}\text{C}/\text{W}$ |
| THERMAL RESISTANCE JUNCTION-CASE | 138   | $^{\circ}\text{C}/\text{W}$ |

\*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 -0.00 MAX.=+0.00 -DECIMAL PRECISION

REV.

PART NUMBER  
SSL-LXT0461UV1C

385nm UV LED, T0-46 CAN PACKAGE.

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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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