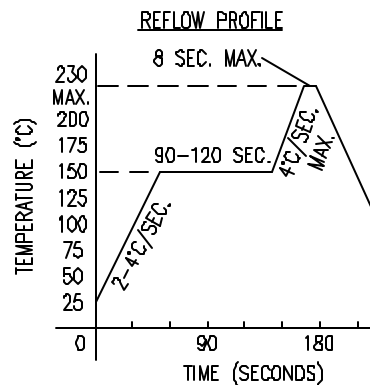
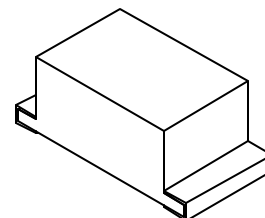
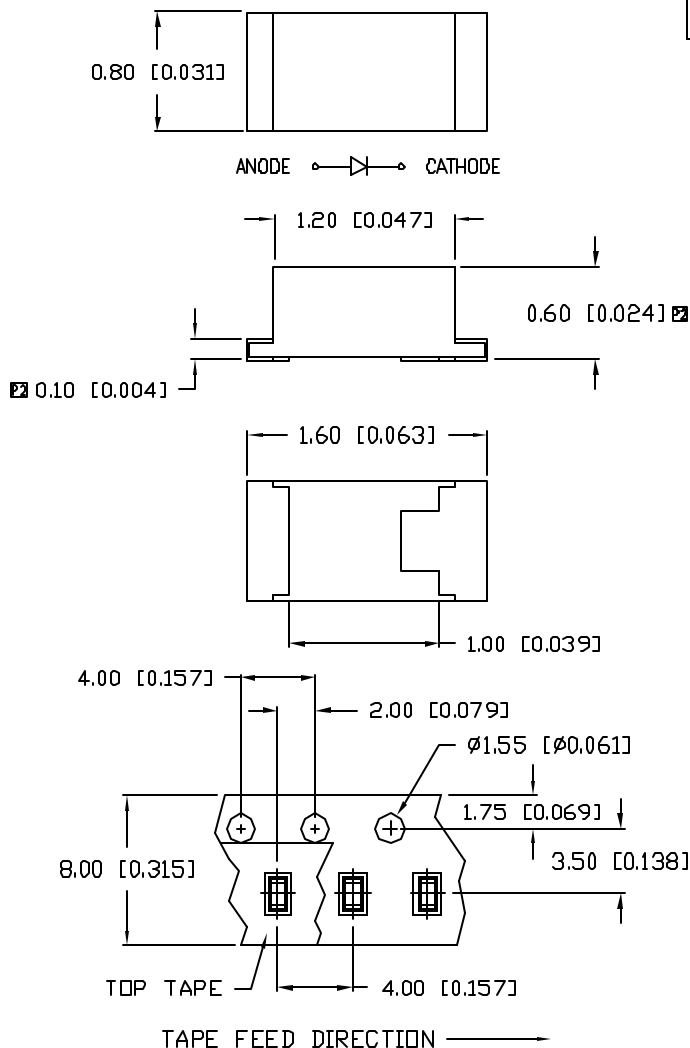


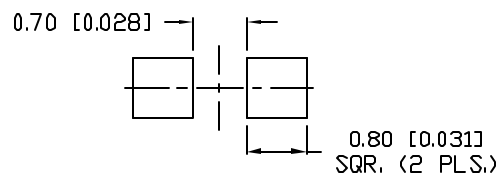
# UNCONTROLLED DOCUMENT

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

CAUTION: MOISTURE SENSITIVE DEVICE  
1. SHELF LIFE IN SEALED BAG:  
12 MONTHS AT <40°C AND <90% RELATIVE HUMIDITY (RH).  
2. AFTER THIS BAG IS OPENED, DEVICES HAVE TO BE  
MOUNTED WITHIN 48 HOURS OR STORED AT <30% RH.



RECOMMENDED SOLDER PAD LAYOUT



\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.038), 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=+DECIMAL PRECISION MAX=-DECIMAL PRECISION

SC:0.05

PART NUMBER

SML-LXFZ0603UWW-TR

REV.

P3

PRELIMINARY IN P/N DIR

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

| PARAMETER           | SYMBOL | MIN | TYP | MAX | UNITS    | TEST COND           |
|---------------------|--------|-----|-----|-----|----------|---------------------|
| PEAK WAVELENGTH     |        |     | 0   |     | nm       |                     |
| FORWARD VOLTAGE     | $V_f$  |     | 3.5 | 4.3 | V        | $I_f=20\text{mA}$   |
| REVERSE VOLTAGE     | $V_r$  | 5   |     |     | V        | $I_r=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | $I_v$  | 50  |     | 160 | mcd      | $I_f=20\text{mA}$   |
| VIEWING ANGLE       |        |     | 130 |     | 2x theta |                     |
| EMITTED COLOR:      |        |     |     |     | WHITE    |                     |

EPOXY LENS FINISH: YELLOW DIFFUSED

\*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.  
\*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

\*COLOR RANK

\*\*INTENSITY BIN RANGE  $I_f=20\text{mA}$

| COLOR GRADE | CIE X |       | CIE Y |       | BIN | MIN | MAX | UNIT |
|-------------|-------|-------|-------|-------|-----|-----|-----|------|
|             | MIN   | MAX   | MIN   | MAX   |     |     |     |      |
| A           | 0.220 | 0.270 | 0.215 | 0.315 | P2  | 50  | 80  | mcd  |
| B           | B1    | 0.250 | 0.285 | 0.245 | Q1  | 63  | 100 | mcd  |
|             | B2    | 0.265 | 0.300 | 0.255 | Q2  | 80  | 125 | mcd  |
| C           | C1    | 0.280 | 0.315 | 0.265 | R1  | 100 | 160 | mcd  |
|             | C2    | 0.295 | 0.330 | 0.275 |     |     |     |      |
| D           | 0.310 | 0.370 | 0.285 | 0.385 |     |     |     |      |

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

| PARAMETER             | SYMBOL    | MAX        | UNITS            |
|-----------------------|-----------|------------|------------------|
| PULSE FORWARD CURRENT | $I_p$     | 100        | mA               |
| STEADY CURRENT        | $I_F$     | 25         | mA               |
| POWER DISSIPATION     | $P_D$     | 110        | mW               |
| OPERATING TEMP.       | $T_{OPR}$ | -40 TO +85 | $^\circ\text{C}$ |
| STORAGE TEMP.         | $T_{STG}$ | -40 TO +85 | $^\circ\text{C}$ |

\*DUTY 1/10 PULSE WIDTH 10ms

## NOTES:

- 3,000 PIECES PER REEL
- PARTS PACKAGED IN CONDUCTIVE COVER AND CARRIER TAPE.
- THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

UNCONTROLLED DOCUMENT

REV.

P3

PART NUMBER

SML-LXFZ0603UWW-TR

0.8 x 1.6mm FLAT TOP SURFACE MOUNT, ULTRA THIN,  
550nm ULTRA WHITE LED,  
YELLOW DIFFUSED LENS, TAPE AND REEL.

## 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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