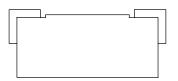
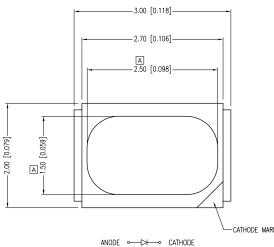
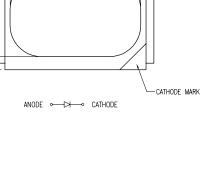
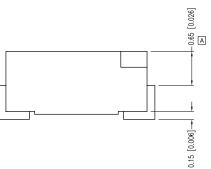
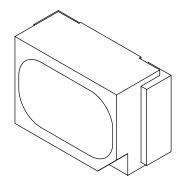
UNCONTROLLED DOCUMENT

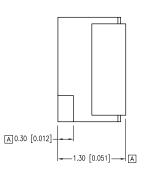






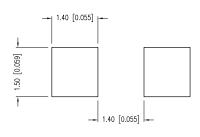






*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030). MIN= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ MAX.= $^{+0.00}_{-0.00}$ PRECISION ARE: X=±1 (±0.039), X.XX=±0.5 (±0.001), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.0030). MIN= $^{+0.00}_{-0.00}$ PRECISION MAX.= $^{+0.00}_{-0.00}$ P

RECOMMENDED SOLDER PAD LAYOUT



| PART NUMBER | SML-LX23USBC-TR | | E |
|-------------|-------------------------------------|--|------|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | REV. |
| 8.7.02 | E.C.N. #10898. & #10BRDR. | | Α |
| 3.14.03 | E.C.N. #10967. | | В |
| 2.8.05 | E.C.N. #11148. | | С |
| 12.15.09 | E.C.N. #11603. | | D |
| 03.28.11 | E.C.N. #10BRDR & REDRAWN. | | E |

| ELECTRO-OPTICAL | CHARACTERISTI | CS TA=25°C | $I_f = 20 \text{mA}$ | | |
|------------------|---------------|------------|----------------------|----------|-----------------------|
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
| PEAK WAVELENGTH | | 470 | | nm | |
| FORWARD VOLTAGE | | 3.5 | 4.0 | V_{f} | |
| REVERSE VOLTAGE | 5.0 | | | Vr | I _r =100uA |
| AXIAL INTENSITY | | 60 | | mcd | I _f =20mA |
| VIEWING ANGLE | | 90 | | 2x theta | |
| EMITTED COLOR: | BLUE | | | | |
| EPOXY LENS FINIS | H: WATER | CLEAR LENS | | | |

| LIMITS OF SAFE OPERATION AT 25°C | PER CHIP | |
|----------------------------------|------------|-------|
| PARAMETER | MAX | UNITS |
| PEAK FORWARD CURRENT* | 160 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 100 | mW |
| DERATE FROM 25°C | -1.2 | mW/⁺C |
| OPERATING TEMP. | -25 TO +80 | •C |
| STORAGE TEMP. | -30 TO +85 | *C |
| * t<10uS | | |

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 4 STANDARDS

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

Creating LED and LCD Solutions Together"

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WEB: WWW.LUMEX.COM

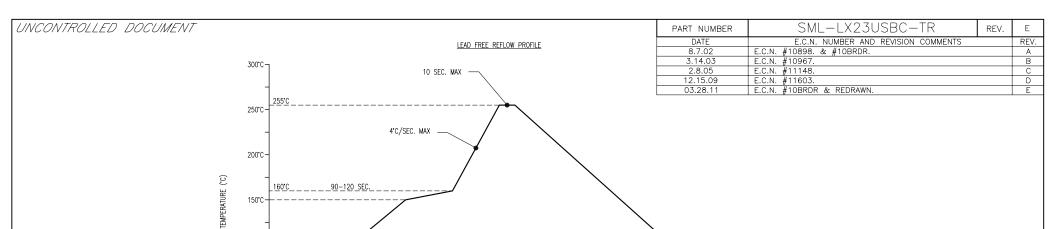
2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 470nm ULTRA SUPER BLUE LED, WATER CLEAR LENS.

THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.

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UNCONTROLLED DOCUMENT DATE: 03.28.11 DRAWN BY: AΒ PAGE: 1 OF 2 CHKD BY: JD SCALE:

NTS APRVD BY: JD UNIT: mm [INCH] (Pb)

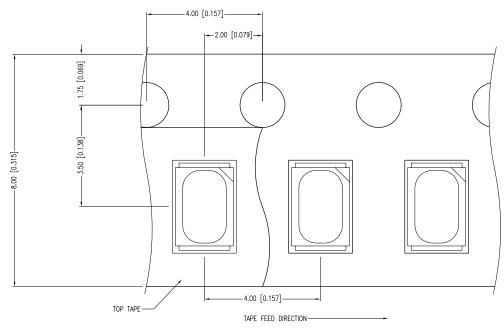


TIME (SEC.) TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

150s

200s

250s



2°C/SEC. MAX

100s

50s

*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= $^{+DECIMAL}_{-0.00}$ PRECISION MAX= $^{+0.00}_{-0.00}$ MIN= $^{+0.00}_{-0.00}$ PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.002), LEAD SIZE=±0.05 (±0.003). MIN= $^{+0.00}_{-0.00}$ PRECISION MAX= $^{+0.00}_$ UNCONTROLLED DOCUMENT

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100°C

50°C 25°C 0°C-

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2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 470nm ULTRA SUPER BLUE LED, WATER CLEAR LENS.

DATE: 03.28.11 DRAWN BY: AΒ PAGE: 2 OF 2 CHKD BY: JD SCALE: NTS APRVD BY: JD UNIT: mm [INCH] (Pb)

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