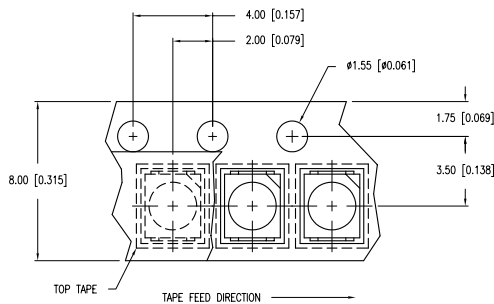
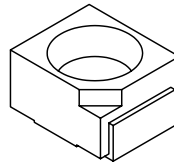
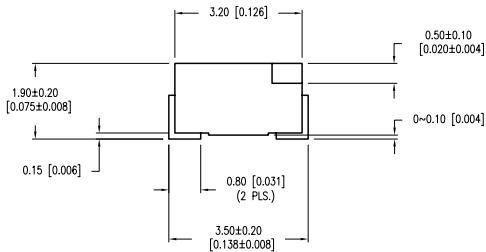
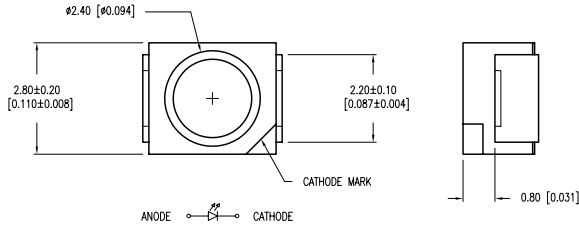
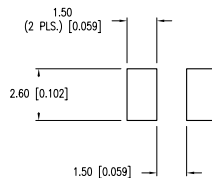


UNCONTROLLED DOCUMENT

| PART NUMBER | SML-LX2832USBC-TR | REV. | E |
|-------------|-------------------------------------|------|------|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | REV. |
| 03.14.03 | E.C.N. #10967. | | A |
| 10.18.07 | E.C.N. #11450. | | B |
| 05.06.10 | E.C.N. #11627. | | C |
| 12.06.10 | E.C.N. #11680. | | D |
| 01.24.11 | E.C.N. #11689. | | E |



RECOMMENDED SOLDER PAD LAYOUT



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

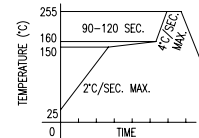
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|-----------------|----------------------|
| PEAK WAVELENGTH | | 468 | | nm | |
| FORWARD VOLTAGE | 2.7 | | 3.5 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | 72 | | 180 | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 120 | | $2\times$ theta | |
| EMITTED COLOR: | BLUE | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|----------------------------------|------------|------------------------|
| PEAK FORWARD CURRENT* | 100 | mA |
| STEADY CURRENT | 25 | mA |
| POWER DISSIPATION | 95 | mW |
| DERATE FROM 25°C | -1.2 | mW/ $^{\circ}\text{C}$ |
| OPERATING TEMP. | -40 TO +85 | $^{\circ}\text{C}$ |
| STORAGE TEMP. | -40 TO +90 | $^{\circ}\text{C}$ |

* $t < 10\mu\text{s}$

LEAD FREE REFLOW PROFILE
10 SEC. MAX.



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

NOTES:

- THE POLARITY MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 2 STANDARDS

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

*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} DECIMAL PRECISION MAX.=^{+0.00}/_{-0.00} DECIMAL PRECISION UNCONTROLLED DOCUMENT

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WEB: WWW.LUMEX.COM

| | | |
|--|-----------------|--------------|
| 2.8mm X 3.2mm SML /W REFLECTOR, 468nm LED, WATER CLEAR LENS, 2,000 PCS PER TAPE & REEL. | DATE: 01.11.01 | DRAWN BY: BC |
| **THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.** | PAGE: 1 OF 1 | CHKD BY: BC |
| CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES. | SCALE: N/A | APRVD BY: KF |
| | UNIT: mm [INCH] | ⑧ |