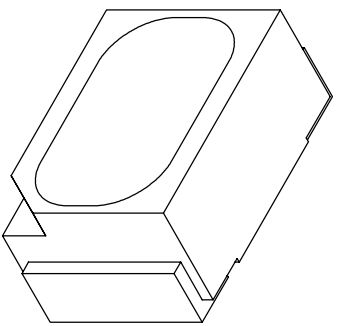




**THE DATASHEET OF
SML-LX23IC-TR**



| PART NUMBER | | SML-LX231C-TR | | REV. | G |
|-------------|-------------------------------------|-----------------------|--|------|---|
| DATE | E.C.N. NUMBER AND REVISION COMMENTS | | | | |
| 02.05.99 | E.C.N. #10BRDR | ADDED REFLOW PROFILE. | | | A |
| 08.09.99 | E.C.N. #10543. | | | | B |
| 01.05.01 | E.C.N. #10695. | | | | C |
| 03.14.03 | E.C.N. #10967. | | | | D |
| 02.07.05 | E.C.N. #11148. | | | | E |
| 12.14.09 | E.C.N. #10603. | | | | F |
| 03.28.11 | E.C.N. #10BRDR & REDRAWN. | | | | G |



ELECTRO-OPTICAL CHARACTERISTICS $I_A=25\text{mA}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|------------------|-----|-----|----------------|----------------------|
| PEAK WAVELENGTH | | 635 | | nm | |
| FORWARD VOLTAGE | | 2.0 | 2.5 | V_f | $I_f=100\mu\text{A}$ |
| REVERSE VOLTAGE | 5.0 | | | V_r | |
| AXIAL INTENSITY | | 20 | | med | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 90 | | 2θ theo | |
| EMITTED COLOR: | RED | | | | |
| EPOXY LENS FINISH: | WATER CLEAR LENS | | | | |

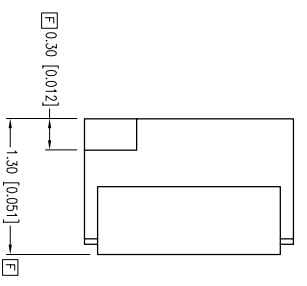
LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| 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 |
| SOLDERING TEMP. | +240 | °C |

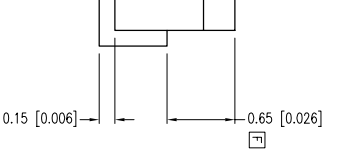
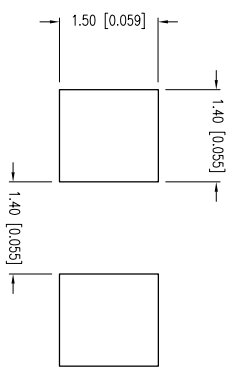
NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS



RECOMMENDED SOLDER PAD LAYOUT



X±1 (+0.039), X±±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= -0.00 DECENTRAL PRECISION MAX. = +0.00 DECENTRAL PRECISION

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E, IL 60067-6976
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WWW.LUMEX.COM

2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 635nm RED LED, WATER CLEAR LENS.

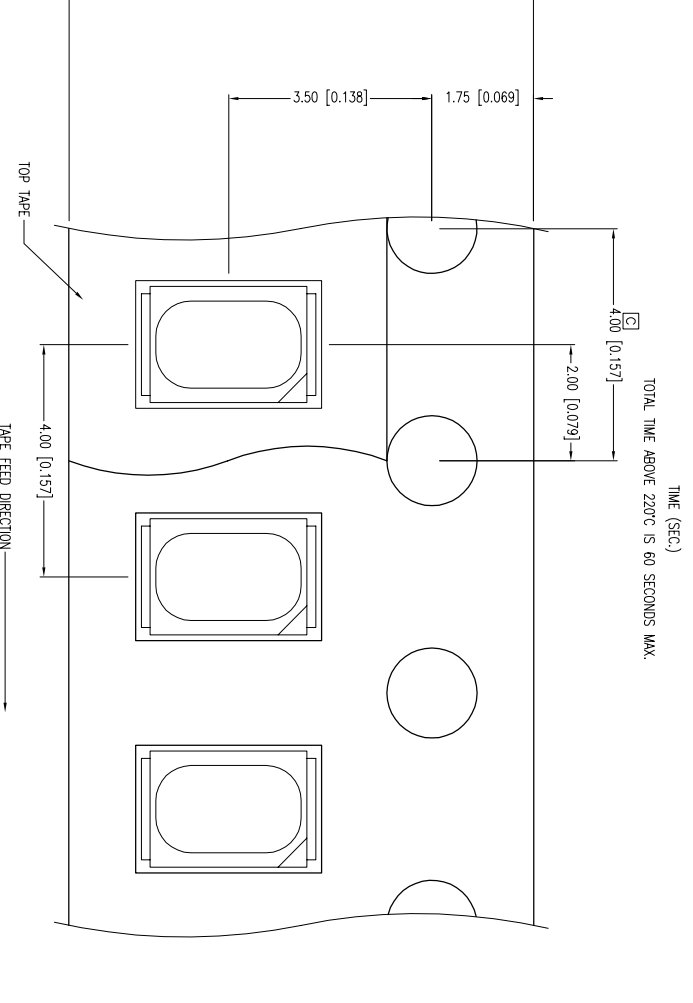
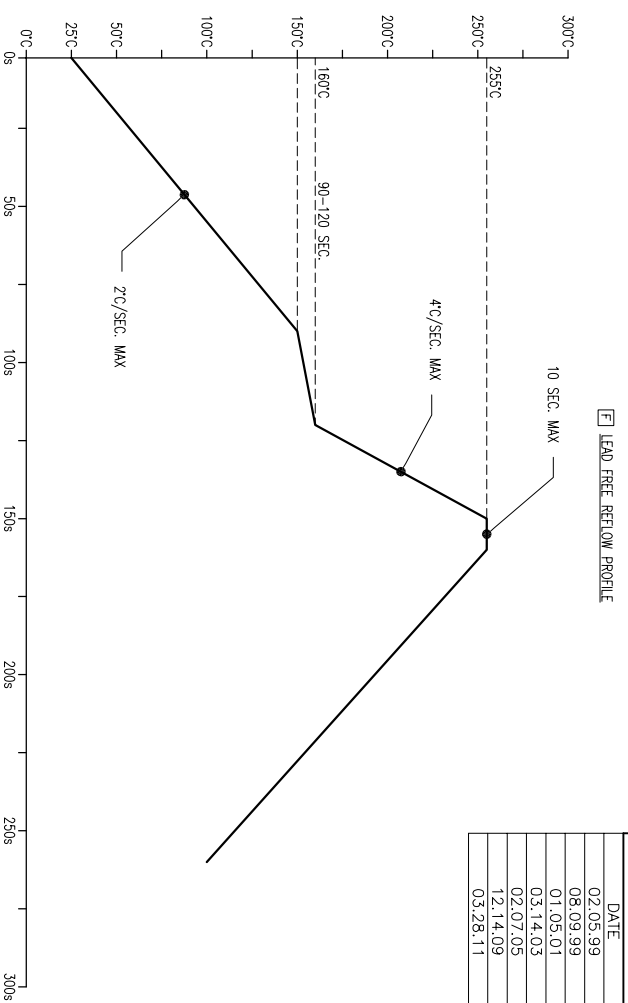
THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT

UNCONTROLLED DOCUMENT

| | | | |
|--------|-----------|-----------|----|
| DATE: | 03.28.11 | DRAWN BY: | AB |
| PAGE: | 1 OF 2 | CHKD BY: | JD |
| SCALE: | NTS | APRVD BY: | JD |
| UNIT: | mm [INCH] | | |

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2mm x 3mm SURFACE MOUNT WITH REFLECTOR, 635nm RED LED, WATER CLEAR LENS.

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DATE: 03.28.11 DRAWN BY: AB
 PAGE: 2 OF 2 CHKD BY: JD
 SCALE: NTS APRVD BY: JD
 UNIT: mm [INCH]

±0.039, X±0.05 ±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±0.000, DECIMAL PRECISION MAX±0.000, DECIMAL PRECISION



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