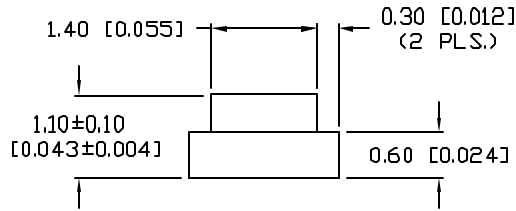
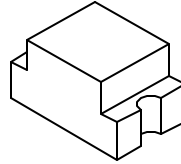
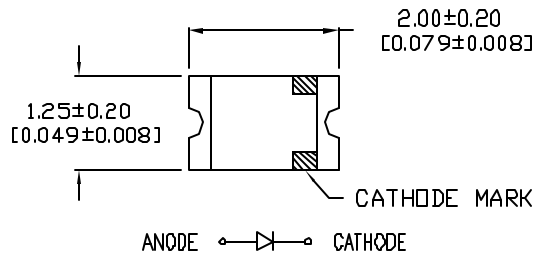
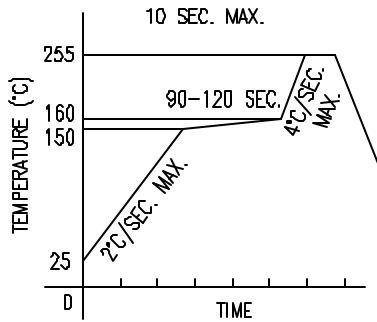


UNCONTROLLED DOCUMENT

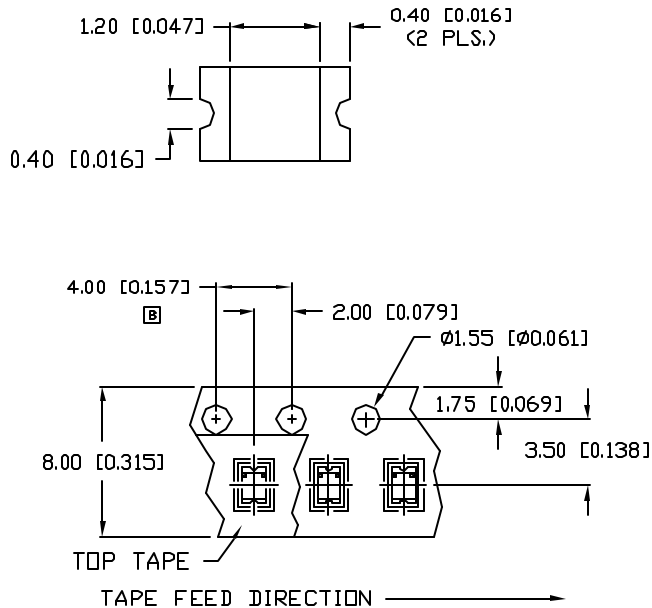
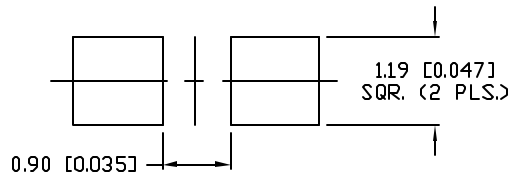


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



| | | |
|-----------------|-------------------------------------|---------|
| PART NUMBER | | REV. |
| SML-LX0805GC-TR | | E |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10BRDR. | 8.26.98 |
| B | E.C.N. #10644. & REDRAWN IN 3D. | 7.18.00 |
| C | E.C.N. #10862. | 5.9.02 |
| D | E.C.N. #10967. | 3.14.03 |
| E | E.C.N. #11148. | 1.17.05 |

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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|-------------|-----|-----|----------------|-----------------------|
| PEAK WAVELENGTH | | 565 | | nm | |
| FORWARD VOLTAGE | | 2.2 | 2.8 | V _f | |
| REVERSE VOLTAGE | 5.0 | | | V _r | I _f =100µA |
| AXIAL INTENSITY | | 10 | | mod | I _f =20mA |
| VIEWING ANGLE | | 140 | | 2x theta | |
| EMITTED COLOR: | GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|---|------------|-------|
| PEAK FORWARD CURRENT* | 160 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 100 | mW |
| DERATE FROM 25°C | -1.2 | mW/°C |
| <input checked="" type="checkbox"/> OPERATING TEMP. | -40 TO +85 | °C |
| <input checked="" type="checkbox"/> STORAGE TEMP. | -40 TO +85 | °C |

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

NOTES:

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

CAUTION: MOISTURE SENSITIVE DEVICE PER JEDEC LEVEL 4 STANDARDS

*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 -0.00 MAX= +0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

| | |
|------|-----------------|
| REV. | PART NUMBER |
| E | SML-LX0805GC-TR |

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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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 TW WEB: www.lumex.com.tw

2.0mm x 1.25mm PCB SURFACE MOUNT, 565nm GREEN LED,
 WATER CLEAR LENS, TAPE AND REEL, 3K PER REEL.

| | | | |
|-----------|-------------|--------------|--------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: |
| BC | | | 7.22.98 |
| | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |