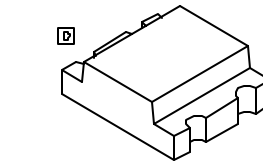
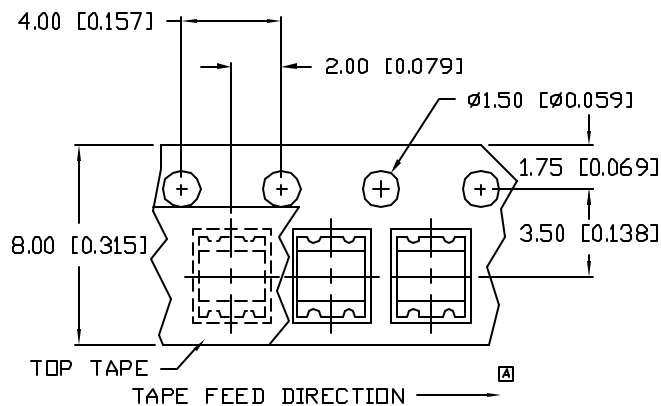
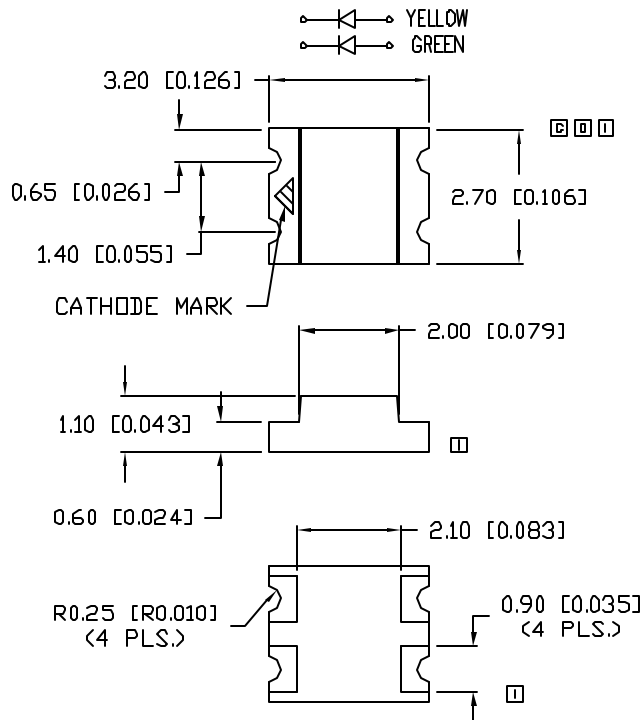
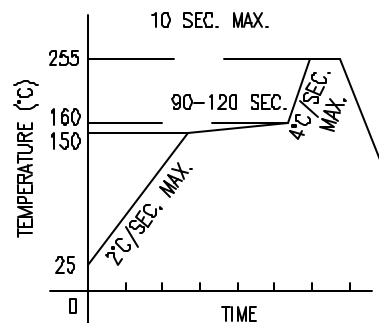


# UNCONTROLLED DOCUMENT

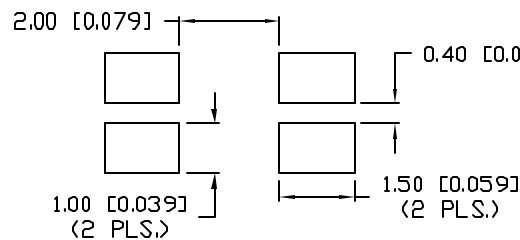


## LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

## 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.=+0.00 -0.00

PART NUMBER  
SML-LX1210YGC-TR

REV.  
I

| REV. | E.C.N. NUMBER AND REVISION COMMENTS  | DATE    |
|------|--------------------------------------|---------|
| A    | ADDED TAPE W/POLARITY AND DIRECTION. | 11.6.95 |
| B    | E.C.N. #10324.                       | 3.17.97 |
| C    | E.C.N. #10404, & #10BRDR & REDRAWN.  | 5.22.98 |
| D    | E.C.N. #10695                        | 1.4.01  |
| E    | E.C.N. #10834.                       | 1.24.02 |
| F    | E.C.N. #10972.                       | 3.25.03 |
| G    | E.C.N. #11014.                       | 7.11.03 |
| H    | E.C.N. #11148.                       | 2.7.05  |
| I    | E.C.N. #11479.                       | 2.22.08 |

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

| PARAMETER             | MIN | TYP          | MAX     | UNITS          | TEST COND             |
|-----------------------|-----|--------------|---------|----------------|-----------------------|
| PEAK WAVELENGTH       |     | 585 (YELLOW) |         | nm             |                       |
|                       |     | 565 (GREEN)  |         | nm             |                       |
| FORWARD VOLTAGE (Y/G) |     | 2.1/2.2      | 2.5/2.6 | V <sub>f</sub> |                       |
| REVERSE VOLTAGE       | 5.0 |              |         | V <sub>r</sub> | I <sub>r</sub> =100μA |
| AXIAL INTENSITY       |     | 10           |         | mcad           | I <sub>f</sub> =20mA  |
| VIEWING ANGLE         |     | 140          |         | 2x theta       |                       |
| EMITTED COLOR:        |     | YELLOW/GREEN |         |                |                       |
| EPOXY LENS FINISH:    |     | WATER CLEAR  |         |                |                       |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | COLORS | MAX        | UNITS |
|-----------------------|--------|------------|-------|
| PEAK FORWARD CURRENT* |        | 150        | mA    |
| STEADY CURRENT        |        | 25         | mA    |
| POWER DISSIPATION     |        | 65         | mW    |
| DERATE FROM 25°C      |        | -1.2       | mW/°C |
| OPERATING TEMP.       |        | -25 TO +85 | °C    |
| STORAGE TEMP.         |        | -30 TO +85 | °C    |

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

1. THE CATHODE IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.
2. LOCATION FOR CATHODE MARK CAN BE EITHER ON THE TOP OR BOTTOM OF THE PART.

CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

REV.

I

PART NUMBER

SML-LX1210YGC-TR

2.7mm x 3.2mm P.C.B. SURFACE MOUNT LED,  
DUAL YELLOW/GREEN CHIPS, WATER CLEAR LENS.

## 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.



US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>JD | CHECKED BY: | APPROVED BY: | DATE: 6.21.95 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |