

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

| PARAMETER                           | ORANGE | GREEN | BLUE | UNITS    | TEST COND            |
|-------------------------------------|--------|-------|------|----------|----------------------|
| PEAK WAVELENGTH                     | 610    | 525   | 470  | nm       |                      |
| FORWARD VOLTAGE (TYP.)              | 28     | 45.5  | 45.5 | $V_f$    |                      |
| FORWARD VOLTAGE (MAX.)              | 28.6   | 52    | 52   | $V_f$    |                      |
| REVERSE VOLTAGE                     | 5.0    | 5.0   | 5.0  | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY                     | 600    | 1000  | 250  | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE                       | 30     | 30    | 30   | 2x theta |                      |
| LED POSITION:                       | E1     | E2    | E3   |          |                      |
| EPOXY LENS FINISH: WATER CLEAR LENS |        |       |      |          |                      |

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$  PER CHIP

| PARAMETER                      | COLORS  | MAX         | UNITS                |
|--------------------------------|---------|-------------|----------------------|
| PEAK FORWARD CURRENT*          | {O/G/B} | 150/150/200 | mA                   |
| STEADY CURRENT                 | {O/G/B} | 25/25/30    | mA                   |
| POWER DISSIPATION              |         | 105         | mW                   |
| DERATE FROM $25^\circ\text{C}$ |         | -1.2        | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP.       |         | -40 TO +85  | $^\circ\text{C}$     |
| SOLDERING TEMP.                |         | +260        | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |         |             | 3 SEC. MAX           |

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

## NOTES:

1. SML-LXL1209USBC-TR. (13 PCS.), E3-E4
2. SML-LXL1209UPGC-TR. (13 PCS.), E2-E4
3. SML-LXL1209SOC-TR. (13 PCS.), E1-E4

\*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 PRECISION MAX.=+0.00  
-0.00 -DECIMAL PRECISION

REV.

PART NUMBER

SML-LXL1209ASSY-1

PCB STRIP LED, 39 DIODES, 7.8mm PITCH,  
ORANGE, GREEN, BLUE, 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.



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PAGE: 1 OF 1

SCALE: N/A