

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

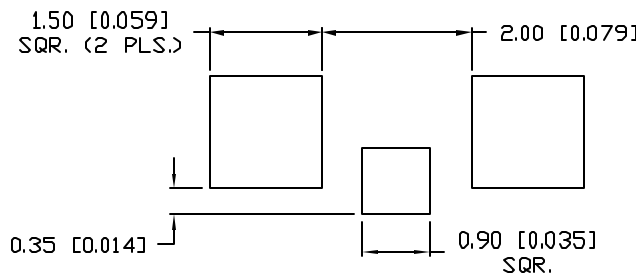
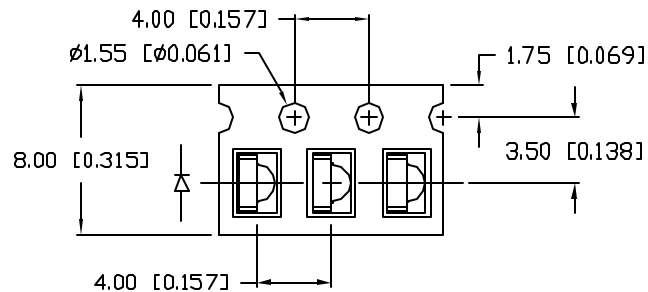
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|----------------------|-------------|-----|------------|----------------------|
| PEAK WAVELENGTH | | 636 (RED) | | nm | |
| | | 574 (GREEN) | | nm | |
| FORWARD VOLTAGE (R/G) | | 2.0/2.2 | 2.6 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G) | | 30/15 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 120 | | $2x$ theta | |
| EMITTED COLOR: | RED/GREEN | | | | |
| EPOXY LENS FINISH: | MILKY WHITE DIFFUSED | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER | COLORS | MAX | UNITS |
|--------------------------------|--------|------------|----------------------|
| PEAK FORWARD CURRENT* | | 160 | mA |
| STEADY CURRENT | (R/G) | 30/25 | mA |
| POWER DISSIPATION | | 105 | mW |
| DERATE FROM 25°C | | -1.6 | mW/ $^\circ\text{C}$ |
| OPERATING TEMP. | | -40 TO +85 | $^\circ\text{C}$ |
| STORAGE TEMP. | | -40 TO +85 | $^\circ\text{C}$ |

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

RECOMMENDED SOLDER PAD LAYOUT



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 MAX=-DECIMAL PRECISION

REV.

PART NUMBER

SML-LXR851SISUGWTR

SURFACE MOUNT RIGHT ANGLE LED,
6.36nm RED/574nm GREEN BICOLOR LED,
MILKY WHITE DIFFUSED 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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SCALE: N/A