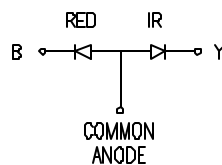
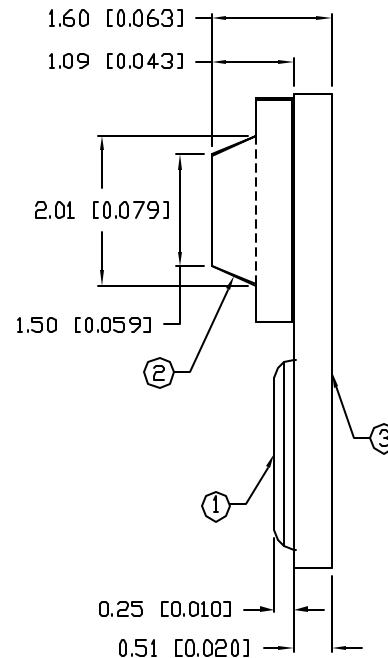
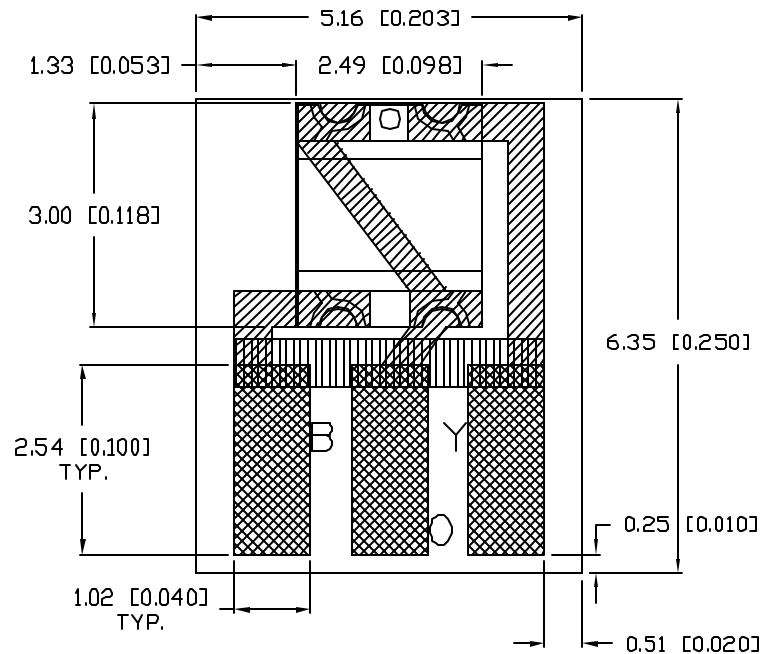


SML-LX2530-13534-1

PRELIMINARY IN P/N DIR

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

| PARAMETER               | MIN | TYP         | MAX     | UNITS    | TEST COND            |
|-------------------------|-----|-------------|---------|----------|----------------------|
| PEAK WAVELENGTH         |     | 660 (RED)   |         | nm       |                      |
|                         |     | 940 (IR)    |         | nm       |                      |
| FORWARD VOLTAGE (IR/SR) |     | 1.2/1.8     | 1.6/2.5 | $V_f$    |                      |
| REVERSE VOLTAGE         | 5.0 |             |         | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (SR)    |     | 75          |         | mcd      | $I_f=20\text{mA}$    |
| (IR)                    |     | 1.7         |         | mW/sr    | $I_f=20\text{mA}$    |
| VIEWING ANGLE           |     | 120         |         | 2x theta |                      |
| EMITTED COLOR:          |     | RED/IR      |         |          |                      |
| EPOXY LENS FINISH:      |     | WATER CLEAR |         |          |                      |

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

| PARAMETER                      | COLORS  | MAX        | UNITS                |
|--------------------------------|---------|------------|----------------------|
| PEAK FORWARD CURRENT*          | (IR/SR) | 1200/160   | mA                   |
| STEADY CURRENT                 | (IR/SR) | 50/30      | mA                   |
| POWER DISSIPATION              |         | 100        | mW                   |
| DERATE FROM $25^\circ\text{C}$ |         | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                |         | -40 TO +85 | $^\circ\text{C}$     |
| STORAGE TEMP.                  |         | -40 TO +85 | $^\circ\text{C}$     |

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

## NOTES:

1. SOLDER PADS TINNED.
2. SML-LX2530SREL0-TR.
3. FR4 PCB.

UNCONTROLLED DOCUMENT

\*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 -DECIMAL PRECISION

REV.

PART NUMBER

SML-LX2530-13534-1

6mm x 5mm CUSTOM EMITTER,  
660nm RED/ 940nm IR, WITH 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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SCALE: N/A