

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|----------|
| A | E.C.N. #11148 | 5.29.07 |
| B | E.C.N. #11508. | 03.05.09 |
| C | E.C.N. #11581. | 12.21.09 |

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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|-------------|-------------|---------|----------|----------------------|
| PEAK WAVELENGTH | | 430 (BLUE) | | nm | |
| | | 565 (GREEN) | | nm | |
| FORWARD VOLTAGE (B/G) | | 3.8/2.2 | 4.5/2.6 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY | | 10 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 120 | | 2x theta | |
| EMITTED COLOR: | BLUE/GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

LIMITS OF SAFE OPERATION AT 25°C

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

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

NOTES:

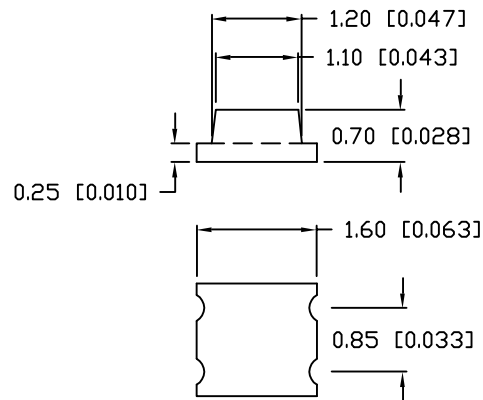
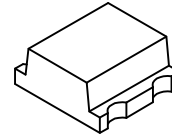
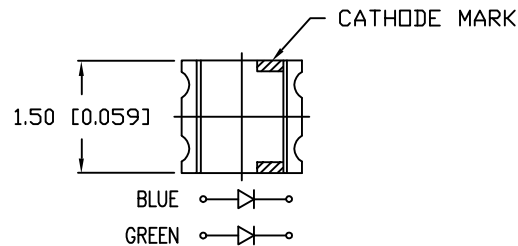
1. THE CATHODE MARK IS ORIENTED TOWARDS THE TAPE SPROCKET HOLE.

CAUTION: STATIC SENSITIVE DEVICE
FOLLOW PROPER E.S.D. HANDLING PROCEDURES
WHEN WORKING WITH THIS PART.

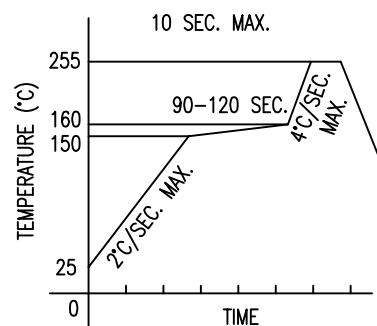
CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 3 STANDARDS

UNCONTROLLED DOCUMENT

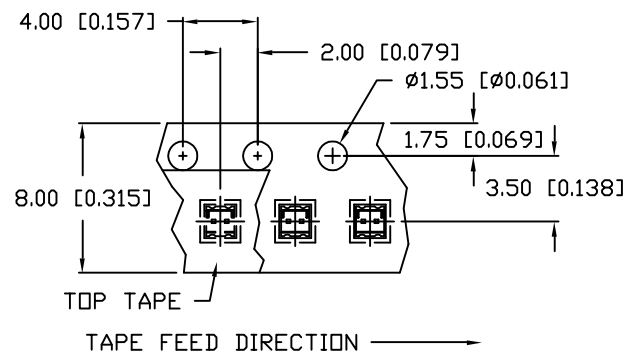
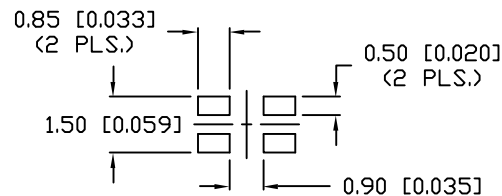
*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010), X.XXX=±0.127 (±0.005). LEAD SIZE=±0.05 (0.002), LEAD LENGTH=±0.75 (±0.030). MIN= +DECIMAL PRECISION MAX= +0.00 -DECIMAL PRECISION



LEAD FREE REFLOW PROFILE

TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT

REV.
CPART NUMBER
SML-LX0606SGSBC-TR

1.6mm x 1.5mm ULTRA THIN SURFACE MOUNT LED,
BICOLOR LED, WATER CLEAR LENS, TAPE AND REEL.

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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 |

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