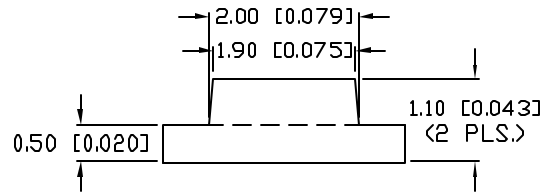
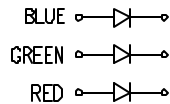
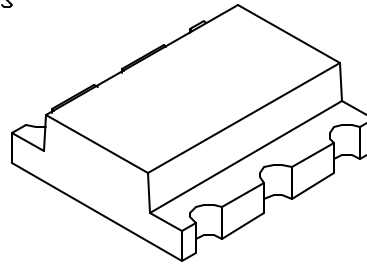
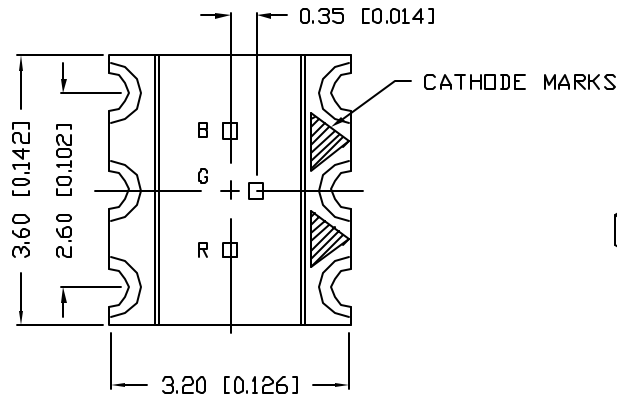


UNCONTROLLED DOCUMENT

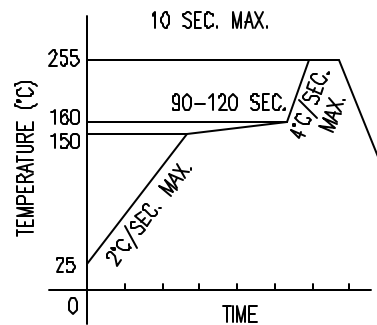
PART NUMBER
SML-LX3632SISUGSBC

REV. **C**

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
|------|-------------------------------------|----------|
| A | E.C.N. #10967. | 3.14.03 |
| B | E.C.N. #11053. | 11.12.03 |
| C | E.C.N. #11148. | 12.15.04 |

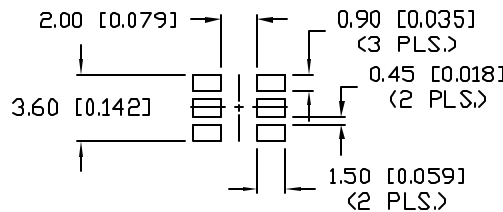


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



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

| PARAMETER | RED | GREEN | BLUE | UNITS | TEST COND |
|------------------------|-----|-------|------|----------|----------------------|
| PEAK WAVELENGTH | 636 | 574 | 430 | nm | |
| FORWARD VOLTAGE (TYP.) | 2.0 | 2.2 | 3.5 | V_f | |
| FORWARD VOLTAGE (MAX.) | 2.4 | 2.6 | 4.5 | V_f | |
| REVERSE VOLTAGE | 5.0 | 5.0 | 5.0 | V_r | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY | 75 | 60 | 50 | mcad | $I_f=20\text{mA}$ |
| VIEWING ANGLE | 120 | 120 | 120 | 2x theta | |
| LED POSITION: | 1 | 2 | 3 | | |

EPOXY LENS FINISH: WATER CLEAR

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER | COLORS | MAX | UNITS |
|--------------------------|---------|----------------|-------|
| PEAK FORWARD CURRENT* | (R/G/B) | 160/160/70 | mA |
| STEADY CURRENT | (R/G/B) | 25/25/30 | mA |
| POWER DISSIPATION | | 60/60/140 | mW |
| DERATE FROM 25°C | (R/G/B) | -1.2/-1.2/-1.6 | mW/°C |
| OPERATING, STORAGE TEMP. | | -40 TO +85 | °C |
| SOLDERING TEMP. | | +260 | °C |
| 2.0mm FROM BODY | | 3 SEC. MAX | |

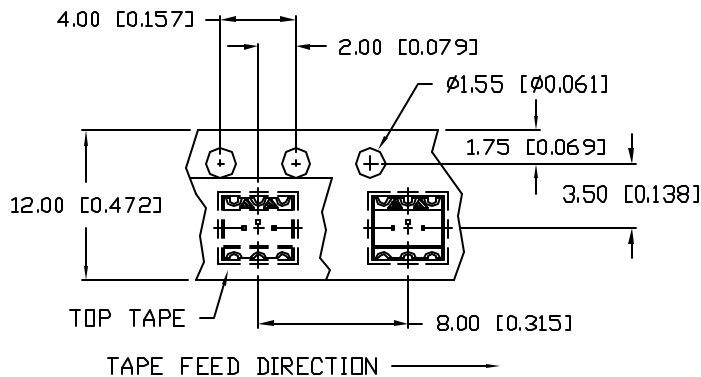
* $t < 10\mu\text{s}$

NOTES:

1. THE CATHODE IS ORIENTED TOWARDS THE 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 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=+0.00 -DECIMAL PRECISION

UNCONTROLLED DOCUMENT

REV. **C** PART NUMBER **SML-LX3632SISUGSBC**

3.2 x 3.6mm SURFACE MOUNT LED, TRI COLOR, SUPER INTENSITY RED, SUPER ULTRA GREEN, SUPER BLUE, 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.

LUMEX
290 E. HELEN ROAD
PALATINE, IL 60067-6976
PHONE: +1.847.359.2790
US WEB: www.lumex.com
TW WEB: www.lumex.com.tw

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PAGE: **1 OF 1**
SCALE: **N/A**