

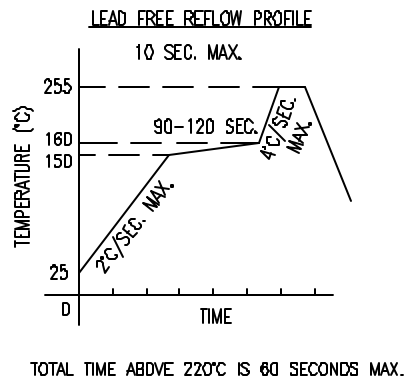
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^{\circ}\text{C}$ $I_f=350\text{mA}$

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNITS | TEST COND |
|---------------------|--------|-----|-------------|-----|----------|---------------------|
| PEAK WAVELENGTH | | | 470 | | nm | |
| FORWARD VOLTAGE | V_f | | 3.5 | 4.2 | V | $I_f=350\text{mA}$ |
| REVERSE VOLTAGE | V_r | 5 | | | V | $I_f=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | I_v | | 5 | | lm | $I_f=350\text{mA}$ |
| VIEWING ANGLE | | | 70 | | 2x theta | |
| EMITTED COLOR: | | | BLUE | | | |
| EPOXY LENS FINISH: | | | WATER CLEAR | | | |

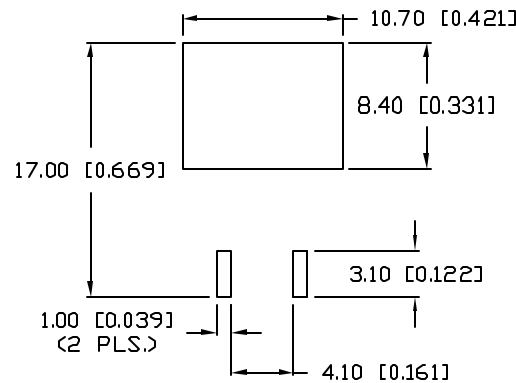
LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | SYMBOL | MAX | UNITS |
|-----------------------|-----------|------------|-------|
| PULSE FORWARD CURRENT | I_p | 500 | mA |
| STEADY CURRENT | I_F | 350 | mA |
| POWER DISSIPATION | P_D | 1.5 | W |
| OPERATING TEMP. | T_{OPR} | -20 TO +70 | °C |
| STORAGE TEMP. | T_{STG} | -40 TO +85 | °C |

*DUTY 1/10 PULSE WIDTH 10ms



SOLDER PAD LAYOUT



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



NOTES:

1. 50 PCS. IN EACH TUBE.

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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= ^{+0.00}/_{-0.00} MAX.= ^{+0.00}/_{-0.00} DECIMAL PRECISION

REV.

PART NUMBER

SML-LX1610USBC

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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.



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

10.60 x 10mm HIGH POWER LED, 470nm BLUE LED.

DRAWN BY:

CHECKED BY:

APPROVED BY:

DATE: 8.31.06

JD

PAGE: 1 OF 1

SCALE: N/A