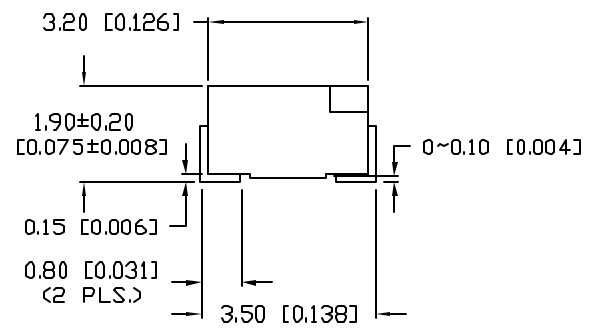
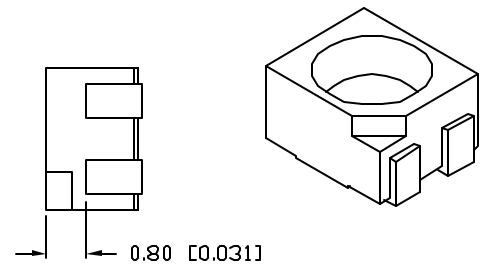
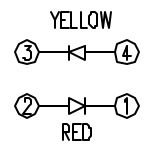
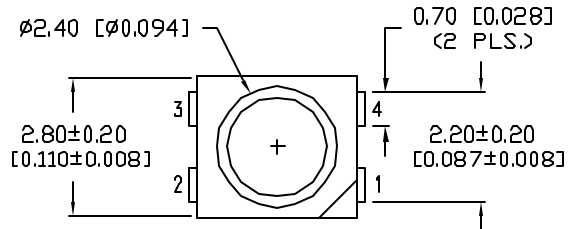
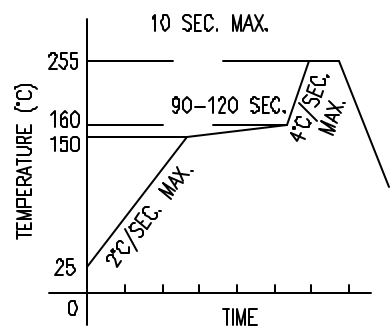


UNCONTROLLED DOCUMENT

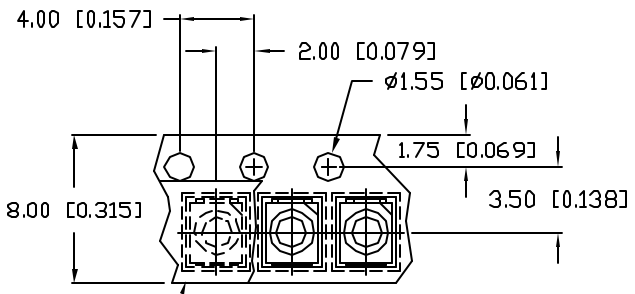
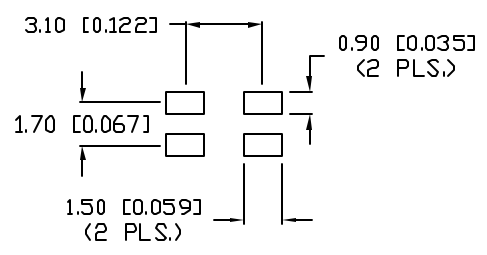


LEAD FREE REFLOW PROFILE



TOTAL TIME ABOVE 220°C IS 60 SECONDS MAX.

RECOMMENDED SOLDER PAD LAYOUT



TOP TAPE
TAPE FEED DIRECTION

REPLACES PART #: SML-LX2832IYC(-TR)

*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= +DECIMAL PRECISION MAX.= +0.00 -DECIMAL PRECISION

| | | |
|------------------|-------------------------------------|---------|
| PART NUMBER | | REV. |
| SML-LX2832IYC-TR | | B |
| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE |
| A | E.C.N. #10967. | 3.14.03 |
| B | E.C.N. #11148. | 2.8.05 |

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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------------|-------------|--------------|---------|------------|----------------------|
| PEAK WAVELENGTH | | 635 (RED) | | nm | |
| | | 585 (YELLOW) | | nm | |
| FORWARD VOLTAGE (R/Y) | | 2.0/2.1 | 2.5/2.5 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (R/Y) | | 15/25 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 120 | | $2x$ theta | |
| EMITTED COLOR: | RED/YELLOW | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

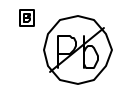
LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER | COLORS | MAX | UNITS |
|-----------------------|--------|------------|-------|
| PEAK FORWARD CURRENT* | | 160 | mA |
| STEADY CURRENT | (R/Y) | 30/30 | mA |
| POWER DISSIPATION | | 100 | mW |
| DERATE FROM 25°C | | -1.2 | mW/°C |
| OPERATING TEMP. | | -25 TO +85 | °C |
| STORAGE TEMP. | | -30 TO +85 | °C |

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

NOTES:

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



CAUTION: MOISTURE SENSITIVE DEVICE
PER JEDEC LEVEL 4 STANDARDS

UNCONTROLLED DOCUMENT

| | |
|------|------------------|
| REV. | PART NUMBER |
| B | SML-LX2832IYC-TR |

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2.8mm x 3.2mm SURFACE MOUNT WITH REFLECTOR CUP, DUAL CHIP, 635nm RED LED AND 585nm YELLOW LED, WATER CLEAR LENS, 2K PER REEL

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.

| | | | |
|-----------|-------------|--------------|---------------|
| DRAWN BY: | CHECKED BY: | APPROVED BY: | DATE: 1.11.01 |
| BC | | | PAGE: 1 OF 1 |
| | | | SCALE: N/A |