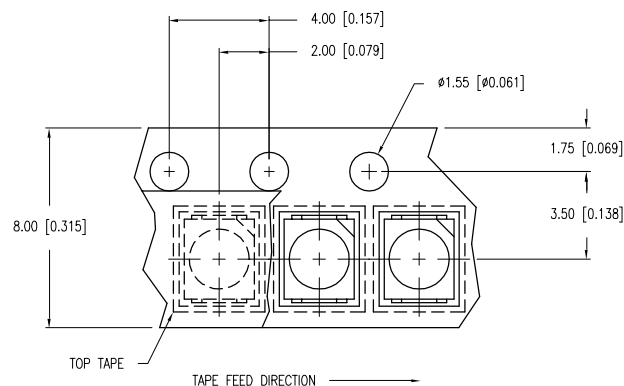
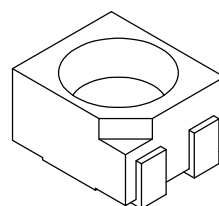
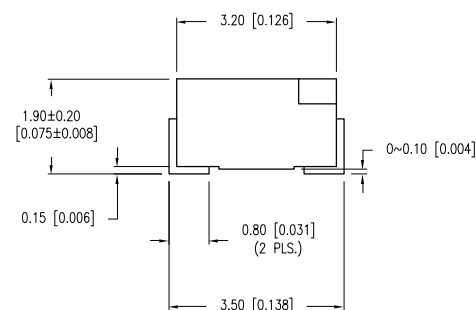
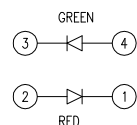
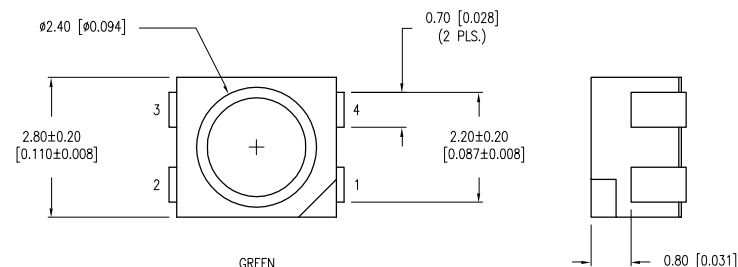
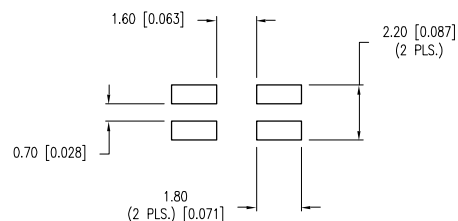


| PART NUMBER | SML-LX2832LIGC-TR                   | REV. | D    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 03.14.03    | E.C.N. #10967                       |      | A    |
| 02.08.05    | E.C.N. #11148                       |      | B    |
| 10.17.07    | E.C.N. #11450                       |      | C    |
| 05.04.10    | E.C.N. #11627                       |      | D    |



[C] RECOMMENDED SOLDER PAD LAYOUT

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

| PARAMETER          | COLOR       | MIN | TYP     | MAX     | UNITS    | TEST COND              |
|--------------------|-------------|-----|---------|---------|----------|------------------------|
| PEAK WAVELENGTH    |             |     | 635     |         | nm       |                        |
|                    |             |     | 565     |         | nm       |                        |
| FORWARD VOLTAGE    | (R/G)       |     | 2.0/2.2 | 2.6/2.6 | $V_f$    |                        |
| REVERSE VOLTAGE    |             | 5.0 |         |         | $V_r$    | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY    |             |     | 25      |         | mcd      | $I_f = 20\text{mA}$    |
|                    |             | 1.0 |         |         |          | $I_f = 2\text{mA}$     |
| VIEWING ANGLE      |             |     | 120     |         | 2x theta |                        |
| EMITTED COLOR:     | RED/GREEN   |     |         |         |          |                        |
| EPOXY LENS FINISH: | WATER CLEAR |     |         |         |          |                        |

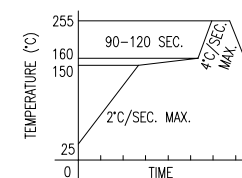
LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$ 

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 160        | mA                   |
| STEADY CURRENT (R/G)           | 30/25      | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.2       | mW/ $^\circ\text{C}$ |
| OPERATING TEMP.                | -40 TO +80 | $^\circ\text{C}$     |
| STORAGE TEMP.                  | -40 TO +85 | $^\circ\text{C}$     |
| SOLDERING TEMP.                | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                | 3          | SEC. MAX             |

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

[B] LEAD FREE REFLOW PROFILE

10 SEC. MAX.

TOTAL TIME ABOVE  $220^\circ\text{C}$  IS 60 SECONDS MAX.

## NOTES:

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

[D]A CAUTION: MOISTURE SENSITIVE DEVICE  
PER JEDEC LEVEL 2 STANDARDS

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



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2.8mm x 3.2mm SML /W REFLECTOR CUP, DUAL CHIP, 635nm/565nm LED, WATER CLEAR LENS, 2k PER REEL.

\*\*THE SPECIFICATIONS MAY CHANGE AT ANY TIME WITHOUT NOTICE DUE TO NEW MATERIALS OR PRODUCT IMPROVEMENT.\*\*

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|                 |              |
|-----------------|--------------|
| DATE: 05.30.02  | DRAWN BY: GB |
| PAGE: 1 OF 1    | CHKD BY: SS  |
| SCALE: N/A      | APRVD BY: KF |
| UNIT: mm [INCH] | (P) [B]      |