

| PART NUMBER | SSI-LXR3816ID-01                    | REV. | D    |
|-------------|-------------------------------------|------|------|
| DATE        | E.C.N. NUMBER AND REVISION COMMENTS |      | REV. |
| 06.09.94    | ADDED NOTES.                        |      | A    |
| 09.16.94    | ADDED NOTES AND SAFE OPER. SPECS.   |      | B    |
| 11.12.01    | E.C.N. #10810. & REDRAWN IN 3D.     |      | C    |
| 03.05.12    | E.C.N. #10BRDR. & REDRAWN.          |      | D    |

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

| PARAMETER       | MIN          | TYP | MAX | UNITS          | TEST COND                   |
|-----------------|--------------|-----|-----|----------------|-----------------------------|
| PEAK WAVELENGTH |              | 635 |     | nm             |                             |
| FORWARD VOLTAGE |              | 2.0 | 2.5 | V <sub>f</sub> |                             |
| REVERSE VOLTAGE | 5.0          |     |     | V <sub>r</sub> | I <sub>r</sub> =100 $\mu$ A |
| AXIAL INTENSITY |              | 30  |     | mcd            | I <sub>f</sub> =20mA        |
| VIEWING ANGLE   |              | 60  |     | 2x theta       |                             |
| EMITTED COLOR:  | RED          |     |     |                |                             |
| LENS FINISH:    | RED DIFFUSED |     |     |                |                             |

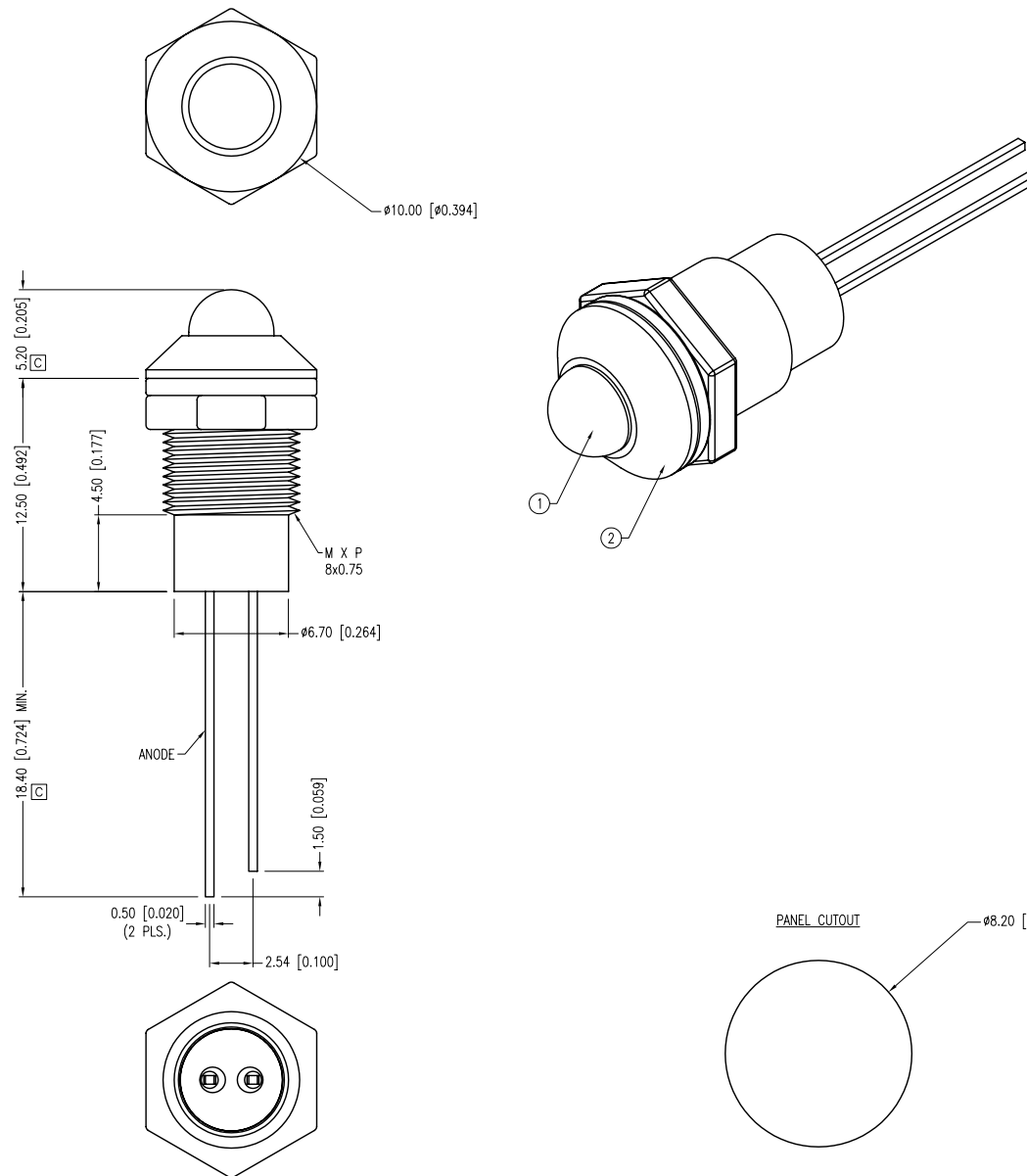
## [B] LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER             | MAX        | UNITS |
|-----------------------|------------|-------|
| PEAK FORWARD CURRENT* | 150        | mA    |
| STEADY CURRENT        | 30         | mA    |
| POWER DISSIPATION     | 105        | mW    |
| DERATE FROM 25°C      | -1.2       | mW/°C |
| OPERATING TEMP.       | -40 TO +85 | °C    |
| STORAGE TEMP.         | -40 TO +85 | °C    |
| SOLDERING TEMP.       | +260       | °C    |
| 2.0mm FROM BODY       | 3          | SEC.  |

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

## NOTES:

- [B] [A] 1. SSL-LX5093D, RED LED.  
 2. SSI-LXR3816, CHROME HOUSING.  
 3. SSH-LX4815BSC, BUSHING (NOT SHOWN).  
 INSERT AND CRIMP.  
 4. PACKAGE LOCKWASHER AND NUT SEPARATELY.



\*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.=  $^{+0.00}_{-0.00}$  DECIMAL PRECISION MAX.=  $^{+0.00}_{-0.00}$  DECIMAL PRECISION

UNCONTROLLED DOCUMENT



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T-5mm 635nm RED LED PANEL INDICATOR, RED DIFFUSED LENS, NUT AND WASHER PACKED SEPARATE.

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

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|        |           |           |    |
|--------|-----------|-----------|----|
| DATE:  | 03.05.12  | DRAWN BY: | AB |
| PAGE:  | 1 OF 1    | CHKD BY:  | KF |
| SCALE: | NTS       | APRVD BY: | KF |
| UNIT:  | mm [INCH] |           | Ⓟ  |