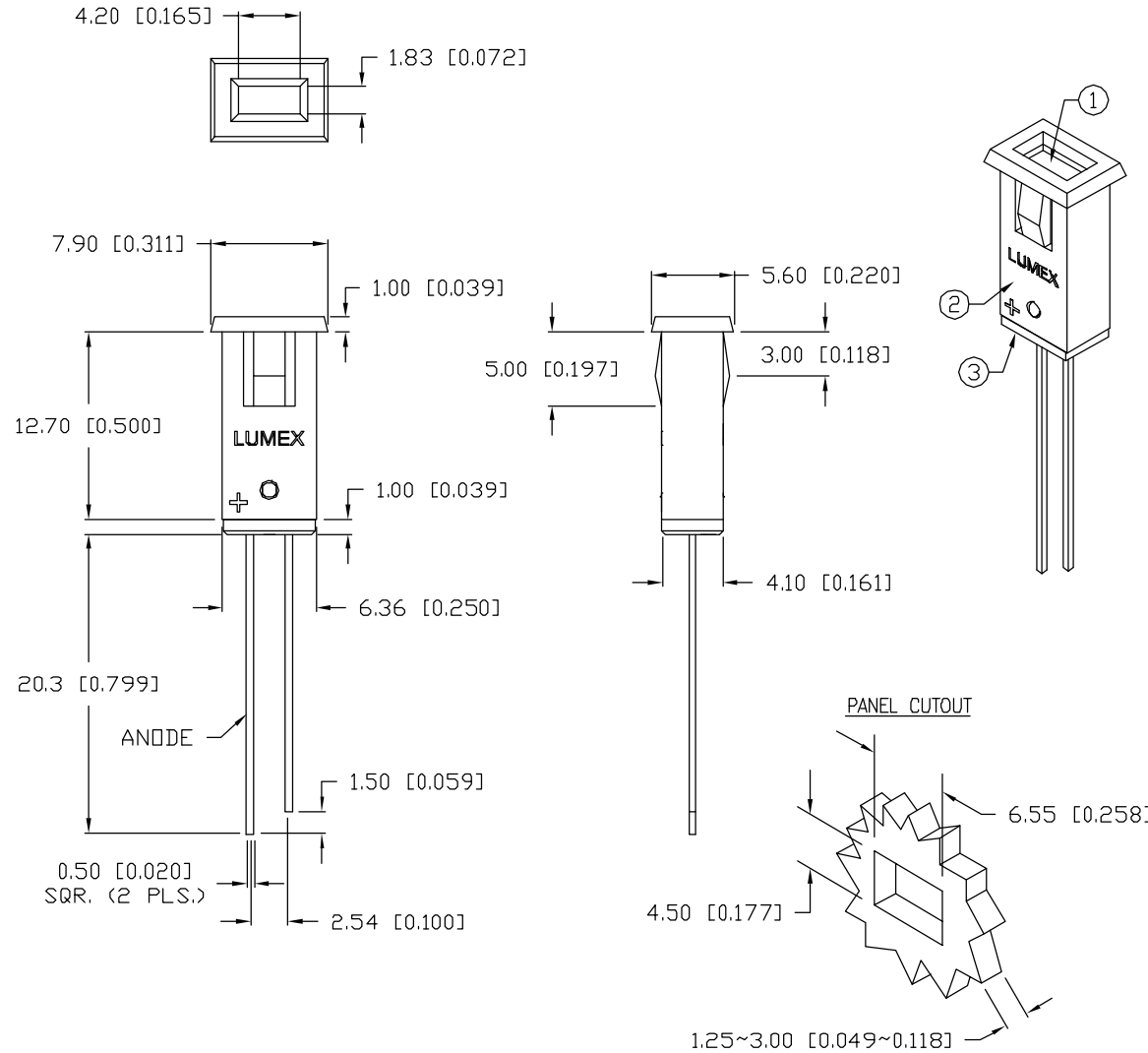


UNCONTROLLED DOCUMENT

PART NUMBER  
SSI-LXMP059YD

REV.  
C

| REV. | E.C.N. NUMBER AND REVISION COMMENTS  | DATE     |
|------|--------------------------------------|----------|
| A    | ADDED DIMS, NOTES AND UPDATED SPECS. | 12.19.94 |
| B    | E.C.N. #10122.                       | 6.27.96  |
| C    | E.C.N. #10BRDR. & REDRAWN IN 3D.     | 1.7.02   |



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

| PARAMETER          | MIN             | TYP | MAX | UNITS    | TEST COND            |
|--------------------|-----------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |                 | 585 |     | nm       |                      |
| FORWARD VOLTAGE    |                 | 2.1 | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0             |     |     | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY    |                 | 10  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                 | 110 |     | 2x theta |                      |
| EMITTED COLOR:     | YELLOW          |     |     |          |                      |
| EPOXY LENS FINISH: | YELLOW DIFFUSED |     |     |          |                      |

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

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

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

NOTES:

- SSL-LX2573YD, YELLOW LED.
- SSH-LXMP059-HSG, BLACK HOUSING.
- SSH-LXMP059-BSG, BLACK BUSHING.

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

|           |                              |
|-----------|------------------------------|
| REV.<br>C | PART NUMBER<br>SSI-LXMP059YD |
|-----------|------------------------------|

585nm YELLOW RECTANGULAR PANEL INDICATOR,  
YELLOW DIFFUSED LENS.

**CONFIDENTIAL INFORMATION**  
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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.



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|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>BC | CHECKED BY: | APPROVED BY: | DATE: 2.26.93 |
|                 |             |              | PAGE: 1 OF 1  |
|                 |             |              | SCALE: N/A    |