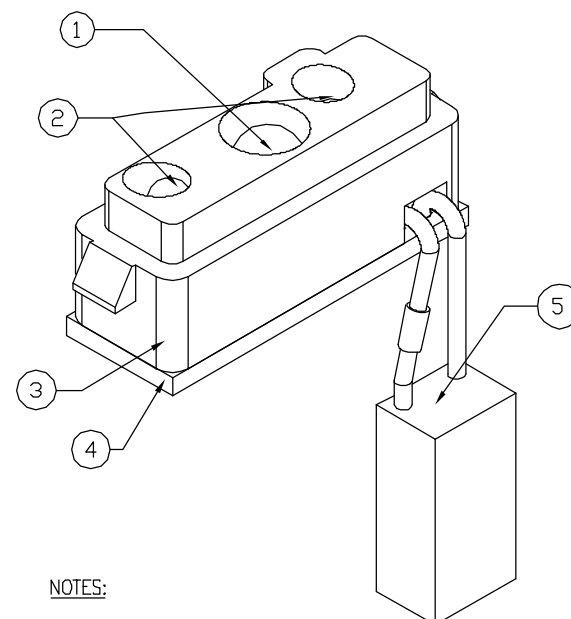
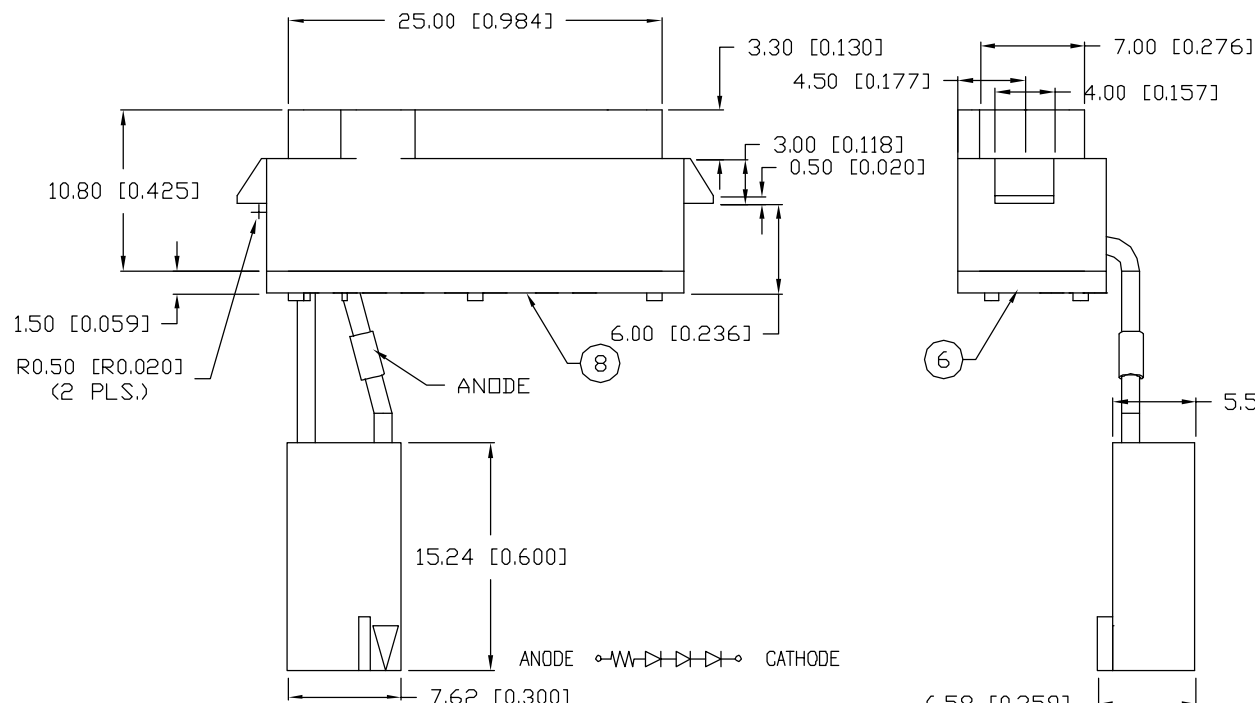
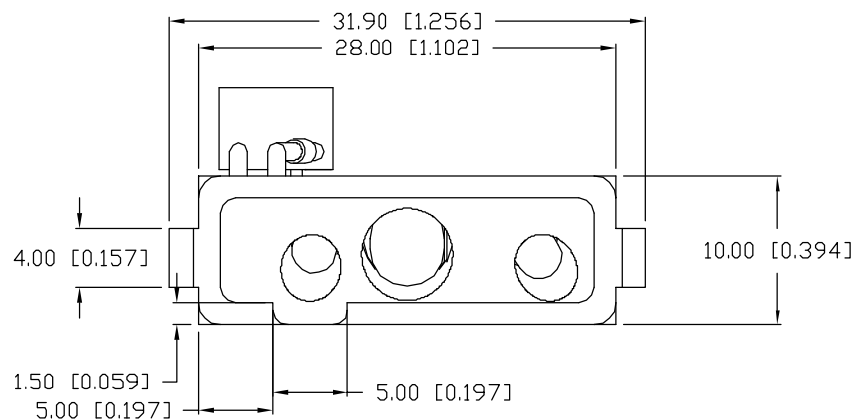


UNCONTROLLED DOCUMENT

PART NUMBER  
SSA-LXH511UWC-170AREV.  
A

| REV. | E.C.N. NUMBER AND REVISION COMMENTS | DATE     |
|------|-------------------------------------|----------|
| A    | E.C.N. #11552.                      | 12.17.08 |



## NOTES:

1. SSL-LX5093UWC/G, 1 PCS. LEDS SHOULD NOT PROTRUDE PAST THE TOP OF THE HOLDER.
2. SSL-LX3054UWC/G, 2 PCS. LEDS SHOULD NOT PROTRUDE PAST THE TOP OF THE HOLDER.
3. SSH-LXH511, CLEAR PC HOLDER.
4. LXP-PCB511, FR4 PCB.
5. LXP-LX509-ASSY, MOLEX CONNECTOR/WIRE ASSEMBLY.
6. LABEL ON BACKSIDE OF PCB WITH DATE CODE: LOT NUMBER AND CUSTOMER PART# W10143532 AND REV LEVEL.
7. LEDS TO BE FROM SAME BRIGHTNESS AND COLOR BINS.
8. CONFORMAL COAT BACKSIDE OF PCB.

UNCONTROLLED DOCUMENT

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

REV.  
APART NUMBER  
SSA-LXH511UWC-170A

CUSTOM LIGHT GUIDED HOLDER.

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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>JD | CHECKED BY: | APPROVED BY: | DATE: 11.9.06 |
|                 |             |              | PAGE: 1 OF 2  |
|                 |             |              | SCALE: N/A    |

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

| PARAMETER           | SYMBOL      | MIN  | TYP   | MAX  | UNITS    | TEST COND           |
|---------------------|-------------|------|-------|------|----------|---------------------|
| PEAK WAVELENGTH     |             |      | —     |      | nm       |                     |
| FORWARD VOLTAGE     | $V_f$       |      | 12.0  | 14.0 | V        | $I_f=20\text{mA}$   |
| REVERSE VOLTAGE     | $V_r$       | 5    |       |      | V        | $I_r=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | $I_v$       | 9000 | 11000 |      | mcd      | $I_f=20\text{mA}$   |
| CHROMATICITY        | X           |      | 0.29  |      |          |                     |
| COORDINATES(*2)     | Y           |      | 0.30  |      |          | $I_f=20\text{mA}$   |
| VIEWING ANGLE       |             |      | 20    |      | 2x theta |                     |
| EMITTED COLOR:      | WHITE       |      |       |      |          |                     |
| EPOXY LENS FINISH:  | WATER CLEAR |      |       |      |          |                     |

\*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.

\*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

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

| PARAMETER             | SYMBOL    | MAX         | UNITS              |
|-----------------------|-----------|-------------|--------------------|
| PULSE FORWARD CURRENT | $I_p$     | 100*        | mA                 |
| STEADY CURRENT        | $I_F$     | 25          | mA                 |
| POWER DISSIPATION     | $P_D$     | 100         | mW                 |
| OPERATING TEMP.       | $T_{OPR}$ | -40 TO +85  | $^{\circ}\text{C}$ |
| STORAGE TEMP.         | $T_{STG}$ | -40 TO +100 | $^{\circ}\text{C}$ |
| SOLDERING TEMP.       |           | +260        | $^{\circ}\text{C}$ |
| 2.0mm FROM BODY       |           |             | 3 SEC. MAX         |

\*DUTY 1/10 PULSE WIDTH 10ms

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

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

REV.

A

PART NUMBER

SSA-LXH511UWC-170A

CUSTOM LIGHT GUIDED HOLDER.

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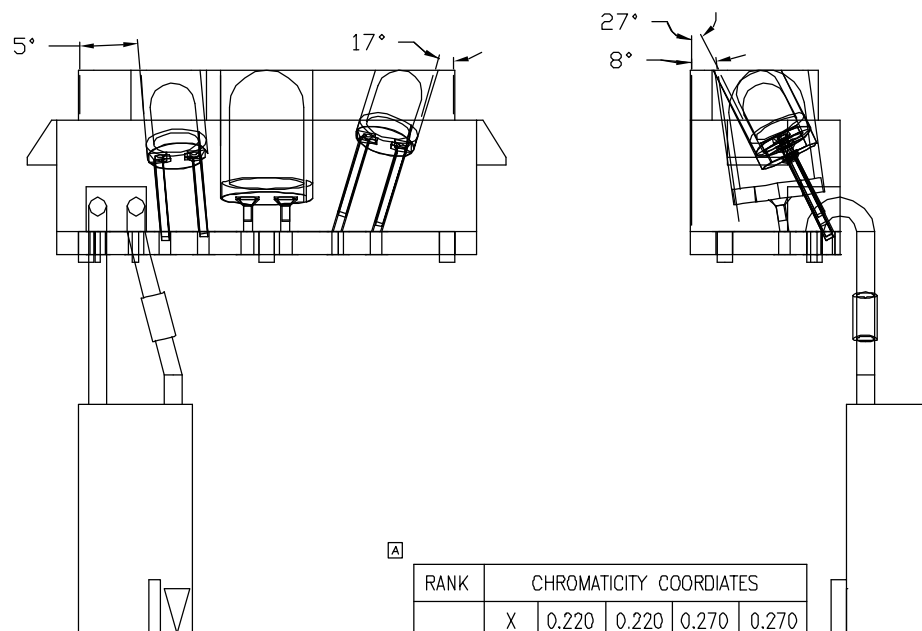
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| JD        |             |              | PAGE: 2 OF 2  |
|           |             |              | SCALE: N/A    |



A

| RANK |   | CHROMATICITY COORDINATES |       |       |       |
|------|---|--------------------------|-------|-------|-------|
| A    | X | 0.220                    | 0.220 | 0.270 | 0.270 |
|      | Y | 0.220                    | 0.280 | 0.310 | 0.250 |
| B    | X | 0.250                    | 0.250 | 0.300 | 0.300 |
|      | Y | 0.250                    | 0.310 | 0.330 | 0.270 |
| C    | X | 0.280                    | 0.280 | 0.330 | 0.330 |
|      | Y | 0.270                    | 0.330 | 0.350 | 0.290 |
| D    | X | 0.310                    | 0.310 | 0.370 | 0.370 |
|      | Y | 0.290                    | 0.350 | 0.380 | 0.320 |