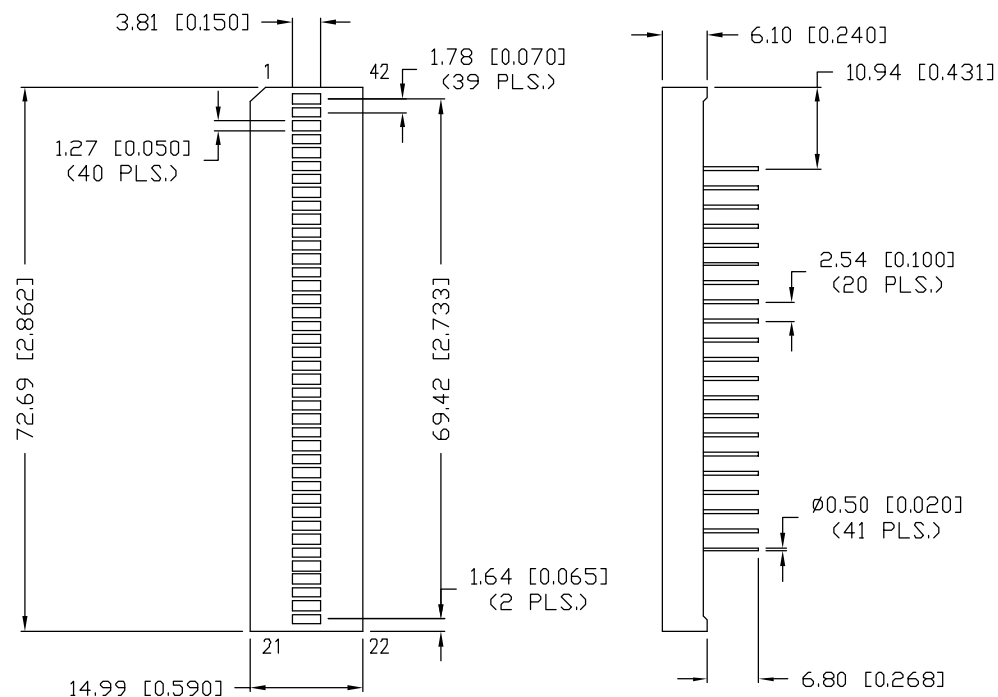


## NOTES:

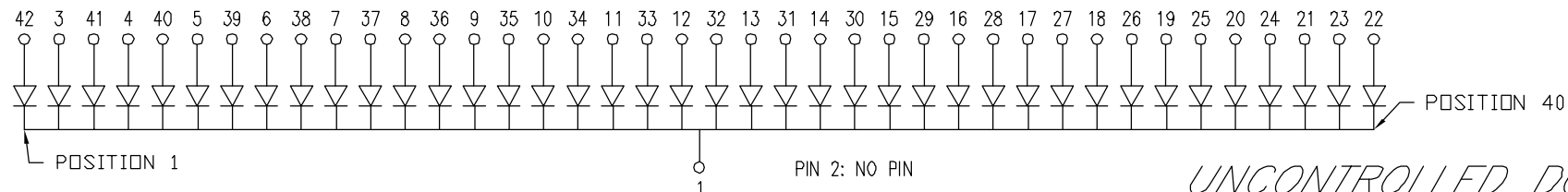
1. REFLECTOR MATERIAL: NORYLL
2. CHIP COLOR AND BRIGHTNESS TO BE UNIFORM IN EA. UNIT.
3. CHAMFERED CORNER DESIGNATES PIN 1 AND POSITION 1.

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

| PARAMETER          | MIN                  | TYP | MAX | UNITS    | TEST COND            |
|--------------------|----------------------|-----|-----|----------|----------------------|
| PEAK WAVELENGTH    |                      | 660 |     | nm       |                      |
| FORWARD VOLTAGE    |                      | 1.7 | 2.2 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0                  |     |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY    |                      | 40  |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE      |                      | 160 |     | 2x theta |                      |
| EMITTED COLOR:     | RED                  |     |     |          |                      |
| EPOXY LENS FINISH: | MILKY WHITE DIFFUSED |     |     |          |                      |
| FACE COLOR:        | BLACK                |     |     |          |                      |

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

| 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           |

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

\*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 MAX= +0.00 -DECIMAL PRECISION

REV.

PART NUMBER  
SSA-LXB40SRW40 UNIT LED ARRAY, 660nm SUPER RED LEDS,  
MILKY WHITE DIFFUSED LENS, BLACK FACE.

## 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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| CT        |             |              | 7.3.01       |
|           |             |              | PAGE: 1 OF 1 |
|           |             |              | SCALE: N/A   |