

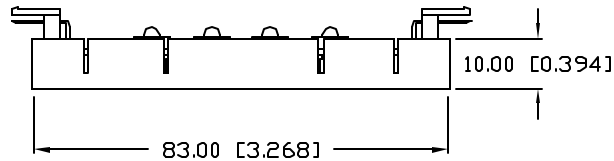
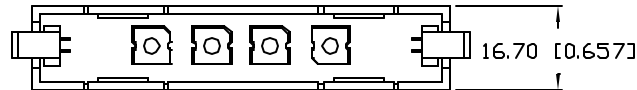
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^{\circ}\text{C}$   $V_f=12\text{V}$

| PARAMETER          | MIN         | TYP       | MAX  | UNITS    | TEST COND            |
|--------------------|-------------|-----------|------|----------|----------------------|
| PEAK WAVELENGTH    |             | 626 (RED) |      | nm       |                      |
| FORWARD VOLTAGE    |             | 12.0      | 14.0 | $V_f$    |                      |
| REVERSE VOLTAGE    | 5.0         |           |      | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY *  |             | 1200      |      | mcd      | $V_f=12\text{V}$     |
| VIEWING ANGLE      |             | 50        |      | 2x theta |                      |
| EMITTED COLOR:     | RED         |           |      |          |                      |
| EPOXY LENS FINISH: | WATER CLEAR |           |      |          |                      |

\*PER LED

LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER                | MAX        | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD VOLTAGE     | 14         | V     |
| STEADY CURRENT           | 70         | mA    |
| POWER DISSIPATION        | 600        | mW    |
| DERATE FROM 25°C         | -1.2       | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C    |



NOTES:

1. FOUR LEDs PER STRIP.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), XX=±0.5 (±0.020), XXX=±0.25 (±0.010), XXXX=±0.127 (±0.005). LEAD SIZE=±0.05 (±0.002), LEAD LENGTH=±0.75 (±0.030), MIN= <sup>+DECIMAL PRECISION</sup> <sub>-0.00</sub> MAX= <sup>+0.00</sup> <sub>-DECIMAL PRECISION</sub>

REV.

PART NUMBER  
SSP-CS836U12

CONFIDENTIAL INFORMATION

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RELIABILITY NOTE

DUR 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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MODULAR STRIP LIGHT, 626nm AlInGaP RED LEDS.

DRAWN:  
BC

CHECKED:

APPROVED:

DATE: 7.31.02  
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