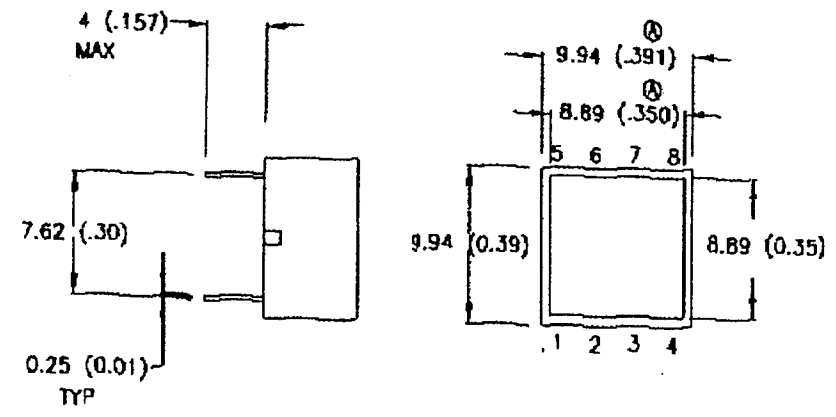


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 3: RWM  
 At: 16129298307  
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 24 Jun 96 13:59; Job 514; Page 1/1

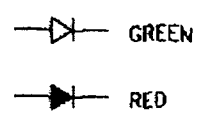
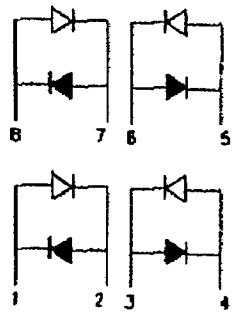
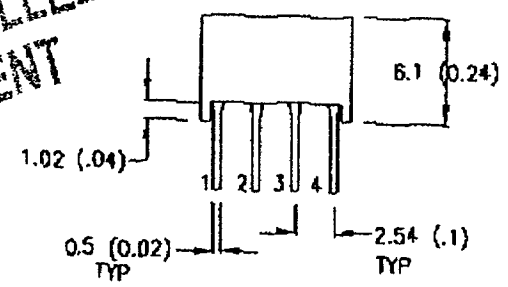
| DATE    | REVISIONS      | A |
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| 9-16-96 | E.C.N. #10241/ | A |

| DRAWING NUMBER | REV |
|----------------|-----|
| SSB-LX2965IGW  | A   |

APPROVED



UNCONTROLLED DOCUMENT



UNIT: mm (INCHES)  
 TOLERANCE:  $\pm 0.25$  ( $\pm 0.01$ ) UNLESS OTHERWISE SPECIFIED.

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

| PARAMETER             | MIN                  | TYP                      | MAX | UNITS          | TEST COND              |
|-----------------------|----------------------|--------------------------|-----|----------------|------------------------|
| PEAK WAVELENGTH       |                      | 635 (RED)<br>565 (GREEN) |     | nm             |                        |
| FORWARD VOLTAGE (R/G) |                      | 2.1                      | 2.8 | V <sub>f</sub> |                        |
| REVERSE VOLTAGE       | 5.0                  |                          |     | V <sub>r</sub> | $I_f = 100\mu\text{A}$ |
| AXIAL INTENSITY (R/G) |                      | 25                       |     | md             | $I_f = 20\text{mA}$    |
| VIEWING ANGLE         |                      | 180                      |     | 2x theta       |                        |
| EMITTED COLOR         | RED/GREEN            |                          |     |                |                        |
| EPOXY LENS FINISH     | MILKY WHITE DIFFUSED |                          |     |                |                        |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                   | MAX        | UNITS |
|-----------------------------|------------|-------|
| PEAK FORWARD CURRENT* (R/G) | 150        | mA    |
| STEADY CURRENT (R/G)        | 30/25      | mA    |
| POWER DISSIPATION (R/G)     | 105        | mW    |
| DERATE FROM 25°C            | -0.37      | mW/°C |
| OPERATING, STORAGE TEMP     | -20 TO +85 | °C    |
| LEAD SOLDERING TEMP         | +260       | °C    |
| 2.0mm FROM BODY             | 3 SEC. MAX |       |

\*  $I < 10\text{uS}$

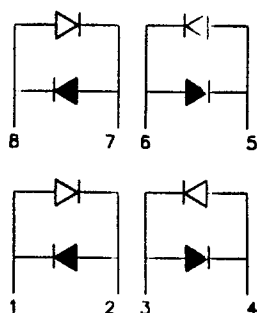
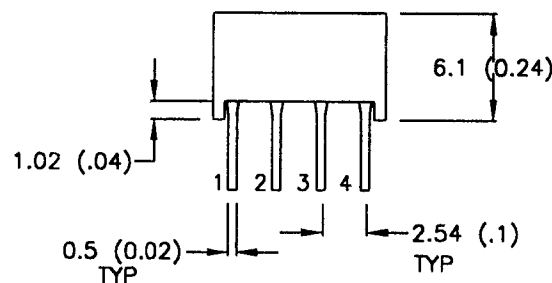
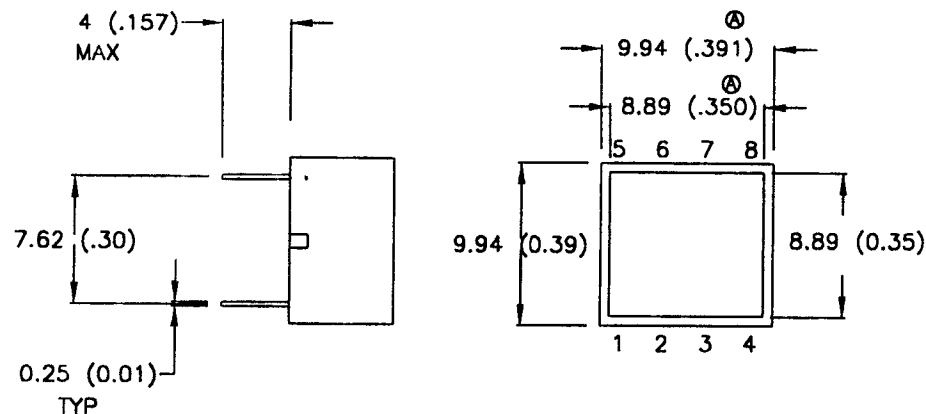
**RELIABILITY NOTE**  
 OUR MANY YEARS OF EXPERIENCE DATA ACCUMULATION INDICATE THAT SOLDER HEAT IS A MAJOR CAUSE OF EARLY AND FUTURE FAILURE. PLEASE PAY ATTENTION TO YOUR SOLDERING PROCESS.

|                                                                                                                                                                                                                                                                                                                                                                                                                   |                                 |                                                                  |                          |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|------------------------------------------------------------------|--------------------------|
| <b>LUMEX</b><br>OPTO COMPONENTS INC.                                                                                                                                                                                                                                                                                                                                                                              |                                 | 290 E. HELLEN ROAD<br>PALATINE, ILLINOIS 60067<br>(847) 359-2790 |                          |
| <small>CONFIDENTIAL INFORMATION<br/>         THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX OPTO/COMPONENTS, INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX OPTO/COMPONENTS, INC., THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND OBSERVATION TO ALL THIRD PARTIES.</small> |                                 |                                                                  |                          |
| DATE: 12-20-95                                                                                                                                                                                                                                                                                                                                                                                                    | OWN: <i>DU</i>                  | CHK: <i>[Signature]</i>                                          | APPX: <i>[Signature]</i> |
| SCALE: N/A                                                                                                                                                                                                                                                                                                                                                                                                        |                                 |                                                                  |                          |
| 8.89mm x 8.89mm LIGHT BAR, RED/GREEN BICOLOR,<br>MILKY WHITE DIFFUSED                                                                                                                                                                                                                                                                                                                                             |                                 |                                                                  |                          |
| PAGE 1 OF 1                                                                                                                                                                                                                                                                                                                                                                                                       | DRAWING NUMBER<br>SSB-LX2965IGW |                                                                  | REV<br>A                 |

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| 9-16-96 | E.C.N. #10241./ | A   |

| DRAWING NUMBER | REV |
|----------------|-----|
| SSB-LX2950IYW  | A   |



YELLOW  
RED

UNIT: mm (INCHES)  
TOLERANCE:  $\pm 0.25$  ( $\pm 0.01$ ) UNLESS OTHERWISE SPECIFIED.

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

| PARAMETER             | MIN | TYP                       | MAX | UNITS          | TEST COND              |
|-----------------------|-----|---------------------------|-----|----------------|------------------------|
| PEAK WAVELENGTH       |     | 635 (RED)<br>585 (YELLOW) |     | nm             |                        |
| FORWARD VOLTAGE (R/Y) |     | 2.1                       | 2.8 | V <sub>f</sub> |                        |
| REVERSE VOLTAGE       | 5.0 |                           |     | V <sub>r</sub> | $I_r = 100\mu\text{A}$ |
| AXIAL INTENSITY (R/Y) |     | 25                        |     | mcd            | $I_f = 20\text{mA}$    |
| VIEWING ANGLE         |     | 160                       |     | 2x theta       |                        |
| EMITTED COLOR         |     | RED/YELLOW                |     |                |                        |
| EPOXY LENS FINISH     |     | MILKY WHITE DIFFUSED      |     |                |                        |

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

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*(R/Y)     | 150        | mA                   |
| STEADY CURRENT (R/Y)           | 30         | mA                   |
| POWER DISSIPATION (R/Y)        | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -0.42      | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP        | -20 TO +85 | $^\circ\text{C}$     |
| LEAD SOLDERING TEMP            | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |            | 3 SEC. MAX           |

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

#### 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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|                |      |        |       |
|----------------|------|--------|-------|
| DATE: 12-20-95 | DWN: | CHK'D: | APPD: |
| SCALE: N/A     |      |        |       |

8.89mm x 8.89mm LIGHT BAR, RED/YELLOW BICOLOR,  
MILKY WHITE DIFFUSED