

| DATE     | REVISIONS                | REV |
|----------|--------------------------|-----|
| 10-13-95 | REDRAWN, UPDATED SPECS./ | A   |

| DRAWING NUMBER   | REV |
|------------------|-----|
| SSF-LX555-2101ID | A   |

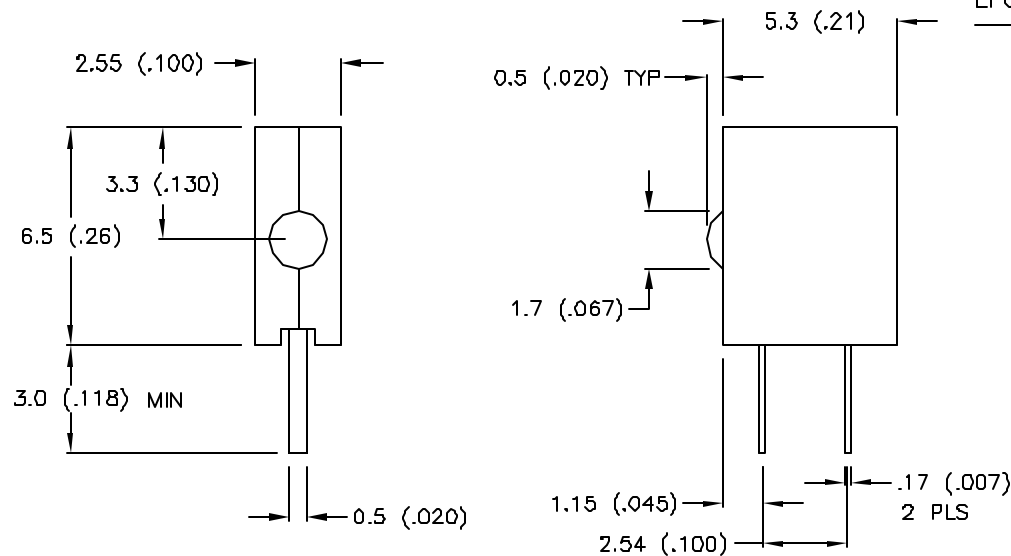
ELECTRO-OPTICAL CHARACTERISTICS  $T_A = 25^\circ\text{C}$   $I_f = 20\text{mA}$

| PARAMETER         | MIN | TYP       | MAX | UNITS    | TEST COND            |
|-------------------|-----|-----------|-----|----------|----------------------|
| PEAK WAVELENGTH   |     | 635 (RED) |     | nm       |                      |
| FORWARD VOLTAGE   |     | 2.1       | 2.8 | $V_f$    |                      |
| REVERSE VOLTAGE   | 5.0 |           |     | $V_r$    | $I_r = 100\text{uA}$ |
| AXIAL INTENSITY   |     | 8         |     | mcd      | $I_f = 20\text{mA}$  |
| VIEWING ANGLE     |     | 120       |     | 2x theta |                      |
| EMITTED COLOR     | RED |           |     |          |                      |
| EPOXY LENS FINISH | RED | 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 | $^\circ\text{C}$     |
| LEAD SOLDERING TEMP            | +260       | $^\circ\text{C}$     |
| 2.0mm FROM BODY                |            | 3 SEC. MAX           |

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



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.



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|                |      |        |       |
|----------------|------|--------|-------|
| DATE: 10-13-95 | DWN: | CHK'D: | APPD: |
| SCALE: N/A     |      |        |       |

T-2mm, RIGHT ANGLE FAULT INDICATOR  
RED DIFFUSED

|             |                                    |          |
|-------------|------------------------------------|----------|
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