

|      |           |     |                                   |     |
|------|-----------|-----|-----------------------------------|-----|
| DATE | REVISIONS | REV | DRAWING NUMBER<br>SSL-LX3054ID-TR | REV |
|------|-----------|-----|-----------------------------------|-----|

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   |              | 2.0       | 2.8 | $V_f$    |                     |
| REVERSE VOLTAGE   | 5.0          |           |     | $V_r$    | $I_r = 10\text{uA}$ |
| AXIAL INTENSITY   |              | 10        |     | md       | $I_f = 20\text{mA}$ |
| VIEWING ANGLE     |              | 60        |     | 2x theta |                     |
| EMITTED COLOR     | RED          |           |     |          |                     |
| EPOXY LENS FINISH | RED DIFFUSED |           |     |          |                     |

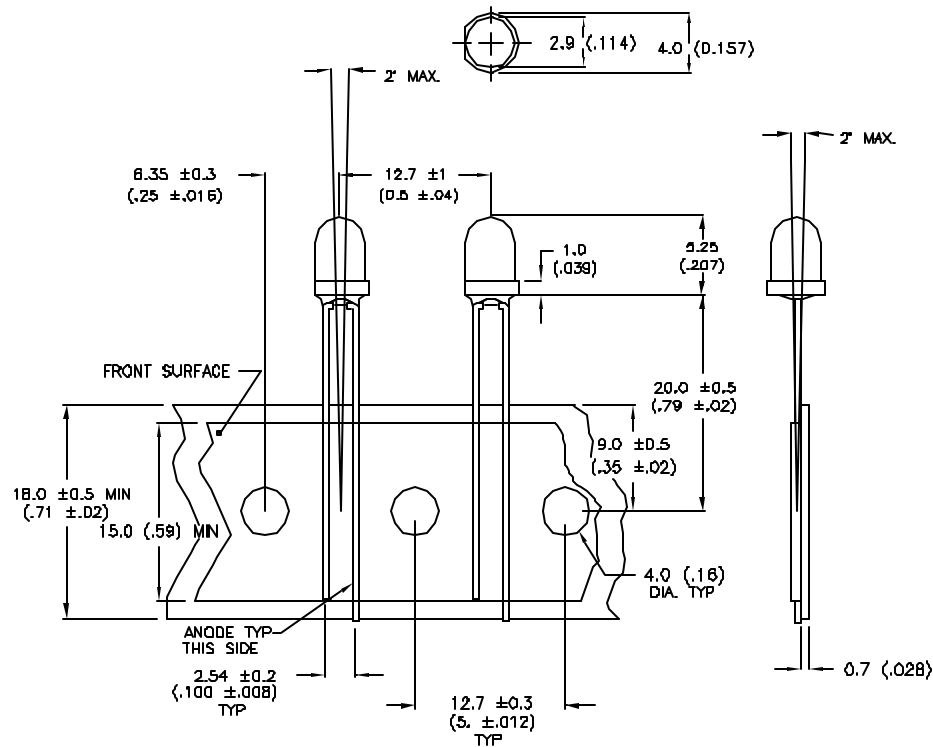
LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$

| PARAMETER                      | MAX        | UNITS                |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT*          | 150        | mA                   |
| STEADY CURRENT                 | 30         | mA                   |
| POWER DISSIPATION              | 105        | mW                   |
| DERATE FROM $25^\circ\text{C}$ | -1.4       | 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 |                      |

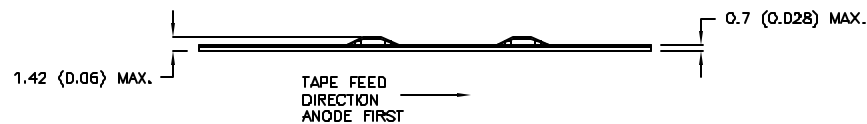
\*  $t < 10\text{uS}$

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.



NOTE  
1. 1.5K PER REEL



TOLERANCE:  $\pm 0.2$  ( $\pm 0.008$ )

|                                                                                                                                                                                                                                                                                                                                                                                            |                                   |                                                                  |       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------------------------------------|-------|
|                                                                                                                                                                                                                                                                                                       |                                   | 292 E. HELLEN ROAD<br>PALATINE, ILLINOIS 60067<br>(708) 359-2790 |       |
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| DATE: 8-19-96                                                                                                                                                                                                                                                                                                                                                                              | DWN:                              | CHK'D:                                                           | APPD: |
| SCALE: N/A                                                                                                                                                                                                                                                                                                                                                                                 |                                   |                                                                  |       |
| T-3 (T-1) LED, RED DIFFUSED<br>TAPE AND REEL                                                                                                                                                                                                                                                                                                                                               |                                   |                                                                  |       |
| PAGE 1 OF 1                                                                                                                                                                                                                                                                                                                                                                                | DRAWING NUMBER<br>SSL-LX3054ID-TR |                                                                  | REV   |

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