



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

| PARAMETER             | MIN                  | TYP         | MAX     | UNITS    | TEST COND            |
|-----------------------|----------------------|-------------|---------|----------|----------------------|
| PEAK WAVELENGTH       |                      | 700 (RED)   |         | nm       |                      |
|                       |                      | 565 (GREEN) |         | nm       |                      |
| FORWARD VOLTAGE (R/G) |                      | 2.1/2.2     | 2.5/2.6 | $V_f$    |                      |
| REVERSE VOLTAGE       | 5.0                  |             |         | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G) |                      | 2/5         |         | md       | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |                      | 60          |         | 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*    | 150        | mA         |
| STEADY CURRENT           | 25         | mA         |
| POWER DISSIPATION        | 105        | mW         |
| DERATE FROM 25°C         | -1.2       | mW/°C      |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C         |
| SOLDERING TEMP.          | +260       | °C         |
| 2.0mm FROM BODY          |            | 3 SEC. MAX |

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

NOTES:

1. SSL-LX20583HGW-FT LED, CUT LEADS TO 5mm.
2. RED ANODE LEAD: LXP-WST24RDT0C, CUT 153mm, STRIP 3.0mm & 9.5mm.
3. GREEN ANODE LEAD: LXP-WST24BLT0C, CUT 153mm, STRIP 3.0mm & 9.5mm.
4. HEATSHRINK: LXP-HEATSHRINK-2, 13mm LONG (2 PGS.).
5. CRIMP OR SOLDER LEADS TO LED LEADS.

\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.030), 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=+DECIMAL PRECISION MAX=-DECIMAL PRECISION

|      |                    |
|------|--------------------|
| REV. | PART NUMBER        |
|      | SSI-LX20583HGWFT15 |

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T-2 700nm RED/565nm GREEN STOVEPIPE LED,  
MILKY WHITE DIFFUSED LENS, FLAT TOP.

**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.

|                 |             |              |               |
|-----------------|-------------|--------------|---------------|
| DRAWN BY:<br>JD | CHECKED BY: | APPROVED BY: | DATE: 10.6.05 |
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|                 |             |              | SCALE: N/A    |