



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

| PARAMETER              | GREEN | RED | UNITS    | TEST COND            |
|------------------------|-------|-----|----------|----------------------|
| PEAK WAVELENGTH        | 565   | 635 | nm       |                      |
| FORWARD VOLTAGE (TYP.) | 2.0   | 2.0 | $V_f$    |                      |
| FORWARD VOLTAGE (MAX.) | 2.6   | 2.5 | $V_f$    |                      |
| REVERSE VOLTAGE (TYP.) | 5.0   | 5.0 | $V_r$    | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (TYP.) | 30    | 30  | mcd      | $I_f=20\text{mA}$    |
| AXIAL INTENSITY (MIN.) | 1.0   | 1.0 | mcd      | $I_f=2\text{mA}$     |
| VIEWING ANGLE          | 60    | 60  | 2x theta |                      |
| LED POSITION:          | 1,3,4 | 2   |          |                      |

EPOXY LENS FINISH: DIFFUSED SAME AS EMITTED COLOR

LIMITS OF SAFE OPERATION AT 25°C PER CHIP

| PARAMETER                | COLORS | MAX        | UNITS      |
|--------------------------|--------|------------|------------|
| PEAK FORWARD CURRENT*    |        | 150        | mA         |
| STEADY CURRENT           | (G/R)  | 25/30      | mA         |
| POWER DISSIPATION        |        | 105        | mW         |
| DERATE FROM 25°C         |        | -1.6       | mW/°C      |
| OPERATING, STORAGE TEMP. |        | -40 TO +85 | °C         |
| SOLDERING TEMP.          |        | +260       | °C         |
| 2.0mm FROM BODY          |        |            | 3 SEC. MAX |

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



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

REV. PART NUMBER  
SSF-LXH475LGIGGD

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290 E. HELEN ROAD  
PALATINE, IL 60067-6976  
PHONE: +1.847.359.2790  
US WEB: www.lumex.com  
TW WEB: www.lumex.com.tw

TOP 4 POSITION FILLED,  
3 GREEN, 1 RED, COLOR DIFFUSED LENS.

**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>JN | CHECKED BY: | APPROVED BY: | DATE: 07.15.09 |
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|                 |             |              | SCALE: N/A     |