



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

| PARAMETER | GREEN | YELLOW | UNITS | TEST COND |
|---|-------|--------|------------|----------------------|
| PEAK WAVELENGTH | 565 | 585 | nm | |
| FORWARD VOLTAGE (TYP.) | 2.2 | 2.1 | V_f | |
| FORWARD VOLTAGE (MAX.) | 2.6 | 2.5 | V_f | |
| REVERSE VOLTAGE | 5.0 | 5.0 | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (TYP.) | 20 | 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 | 2,4 | | |
| EPOXY LENS FINISH: DIFFUSED SAME AS EMITTED COLOR | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER LED

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

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

*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X= ± 1 (± 0.039), 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.= $^{+0.00}$ _{-0.00} MAX.= $^{+0.00}$ _{-0.00} DECIMAL PRECISION

REV.

PART NUMBER

SSF-LXH475LGYGYD

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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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SCALE: N/A

T-3mm (T-1) FOUR UNIT FAULT INDICATOR,
POS.1,3: 565nm GREEN, POS.2,4: 585nm YELLOW,
COLOR DIFFUSED LENS, LOW CURRENT OPERATION.