



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $I_f=60\text{mA}$

| PARAMETER | (COLORS) | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------------------|----------|---------------|-------------|------|----------|----------------------|
| PEAK WAVELENGTH | | | 660 (RED) | | nm | |
| | | | 565 (GREEN) | | nm | |
| | | | 430 (BLUE) | | nm | |
| FORWARD VOLTAGE (R) | (R) | | 7.2 | 10.0 | V_f | $I_f=20\text{mA}$ |
| | (G) | | 8.4 | 10.0 | V_f | $I_f=40\text{mA}$ |
| | (B) | | 11.5 | 13.5 | V_f | $I_f=60\text{mA}$ |
| REVERSE VOLTAGE (R/G/B) | 12 | | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G/B) | | 1800/1200/300 | | | mcd | $I_f=40\text{mA}$ |
| VIEWING ANGLE | | | 40 | | 2x theta | |
| EPOXY LENS FINISH: WATER CLEAR | | | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER | COLORS | MAX | UNITS |
|--------------------------------|---------|-------------|----------------------------|
| PEAK FORWARD CURRENT* | (R/G/B) | 150/150/100 | mA |
| STEADY CURRENT | (R/G/B) | 30/25/30 | mA |
| POWER DISSIPATION | (R/G/B) | 200/450/900 | mW |
| DERATE FROM 25°C | | -1.2 | $\text{mW}/^\circ\text{C}$ |
| OPERATING, STORAGE TEMP. | | -30 TO +60 | $^\circ\text{C}$ |

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

*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=+DECIMAL PRECISION MAX.=+0.00 -0.00 -DECIMAL PRECISION

REV.

PART NUMBER

SSP-LXC102821BA

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RELIABILITY NOTE

DUR 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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RED/GREEN/BLUE LEDS, WATER CLEAR LENS.

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