



ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$ $V_f=12\text{V}$

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-----------------|--------------------|------|-----|------------------------|----------------------|
| PEAK WAVELENGTH | | 590 | | nm | |
| FORWARD VOLTAGE | | 12 | 14 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY | | 2800 | | cd/m^2 | $V_f=12\text{V}$ |
| VIEWING ANGLE | | 120 | | 2x theta | |
| EMITTED COLOR: | YELLOW | | | | |
| LENS FINISH: | YELLOW TRANSPARENT | | | | |

LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER | MAX | UNITS |
|--------------------------------|------------|----------------------------|
| PEAK FORWARD VOLTAGE | 14 | V |
| STEADY CURRENT | 12 | mA |
| POWER DISSIPATION | 105 | mW |
| DERATE FROM 25°C | -1.2 | $\text{mW}/^\circ\text{C}$ |
| OPERATING, STORAGE TEMP. | -40 TO +85 | $^\circ\text{C}$ |

*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} _{-0.00} MAX.= ^{+0.00} _{-DECIMAL PRECISION}

REV.

PART NUMBER

SSP-BLS2503S812

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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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2.5" x 1.2" RECTANGULAR SIDE MARKER LIGHT,
 590nm AlInGaP YELLOW LEDS.

DRAWN:
BC

CHECKED:

APPROVED:

DATE: 6.3.02
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