

UNCONTROLLED DOCUMENT

PART NUMBER  
SSL-LX509BL7IGW

REV.

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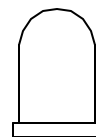
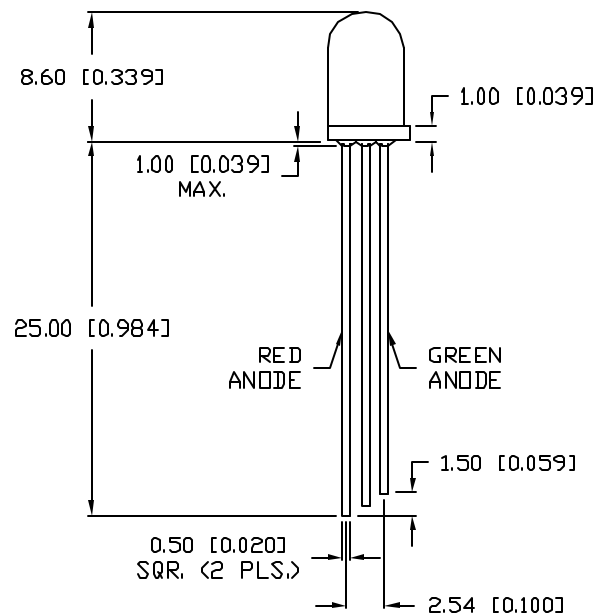
REV. E.C.N. NUMBER AND REVISION COMMENTS

DATE

A E.C.N. #11148

11.02.06

$\varnothing 5.90$  [0.232]       $\varnothing 5.00$  [0.197]



1.27 [0.050]

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

| PARAMETER             | MIN                  | TYP         | MAX     | UNITS          | TEST COND            |
|-----------------------|----------------------|-------------|---------|----------------|----------------------|
| PEAK WAVELENGTH       |                      | 635 (RED)   |         | nm             |                      |
|                       |                      | 565 (GREEN) |         | nm             |                      |
| FORWARD VOLTAGE (R/G) |                      | 2.0/2.2     | 2.5/2.6 | V <sub>f</sub> |                      |
| REVERSE VOLTAGE       | 5.0                  |             |         | V <sub>r</sub> | $I_f=100\mu\text{A}$ |
| AXIAL INTENSITY (R/G) |                      | 60/50       |         | mcd            | $I_f=20\text{mA}$    |
| VIEWING ANGLE         |                      | 60          |         | 2x theta       |                      |
| EMITTED COLOR:        | RED/GREEN            |             |         |                |                      |
| EPOXY LENS FINISH:    | MILKY WHITE DIFFUSED |             |         |                |                      |

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER                | COLORS | MAX        | UNITS      |
|--------------------------|--------|------------|------------|
| PEAK FORWARD CURRENT*    | (R/G)  | 160/140    | mA         |
| STEADY CURRENT           | (R/G)  | 30/25      | 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 |

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

\*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

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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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T-5mm (T-1 3/4) BI-COLOR LED,  
635nm RED/565nm GREEN, MILKY WHITE DIFFUSED LENS.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 11.02.06

PAGE: 1 OF 1

SCALE: N/A