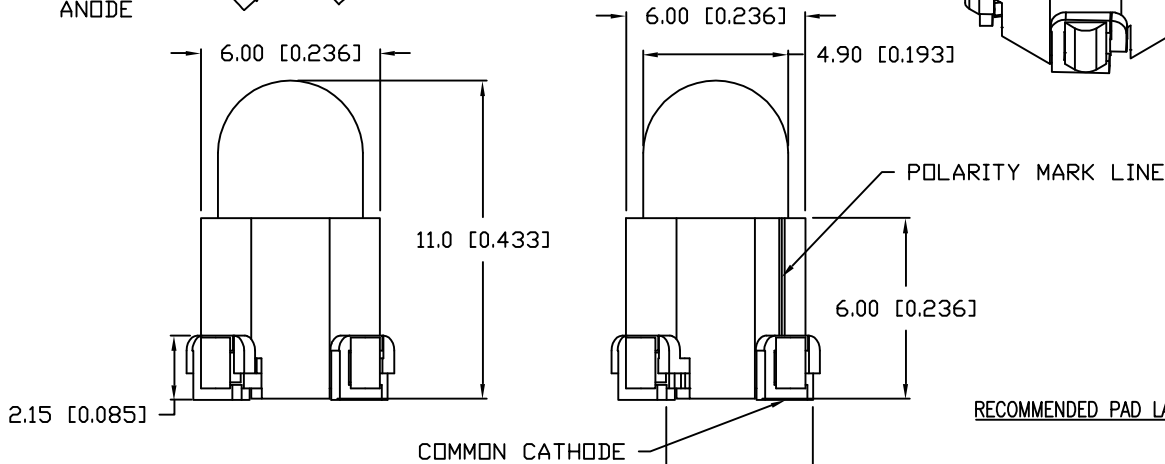
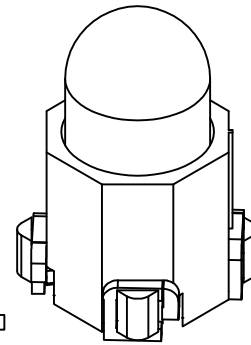
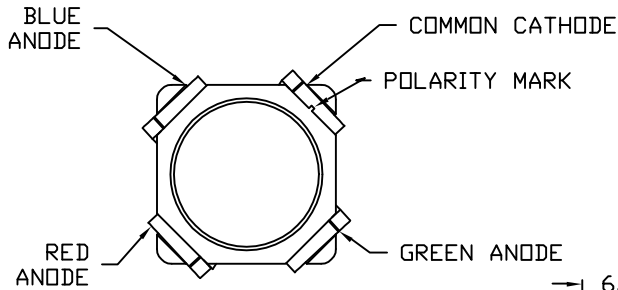


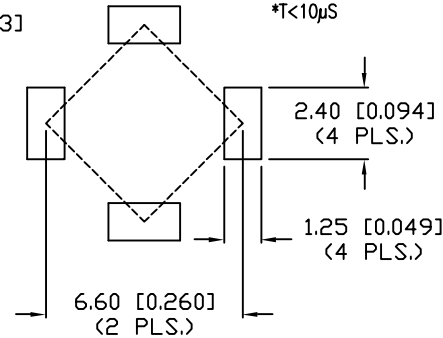
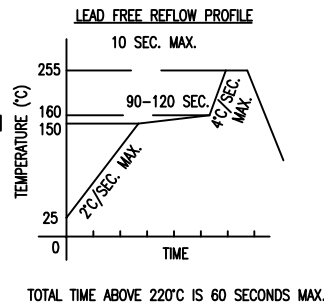
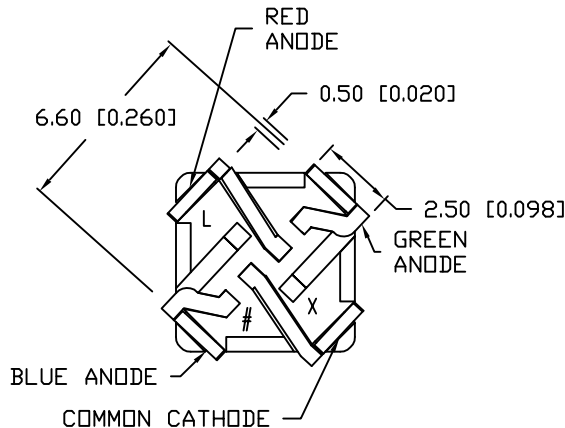
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PART NUMBER  
SML-H1505SIUPGUSBW

REV.



RECOMMENDED PAD LAYOUT



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       |                      |
|                         |                       | 465 (BLUE)    |     | nm       |                      |
|                         |                       | 520 (GREEN)   |     | nm       |                      |
| FORWARD VOLTAGE (R)     |                       | 2.2           | 2.7 | $V_f$    |                      |
|                         | (B)                   | 3.4           | 4.0 | $V_f$    |                      |
|                         | (G)                   | 3.4           | 4.0 | $V_f$    |                      |
| REVERSE VOLTAGE         | 5.0                   |               |     | $V_r$    | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY (R/B/G) |                       | 1100/600/2200 |     | mcd      | $I_f=20\text{mA}$    |
| VIEWING ANGLE           |                       | 60            |     | 2x theta |                      |
| EMITTED COLOR:          | RED/BLUE/GREEN        |               |     |          |                      |
| EPOXY LENS FINISH:      | MILKY WHITE DIFFUSED. |               |     |          |                      |

LIMITS OF SAFE OPERATION AT 25°C PERCHIP

| PARAMETER             | COLORS | MAX         | UNITS |
|-----------------------|--------|-------------|-------|
| PEAK FORWARD CURRENT* | R/B/G  | 100         | mA    |
| STEADY CURRENT        | R/B/G  | 30/20/20    | mA    |
| POWER DISSIPATION     | R/B/G  | 95/80/80    | mW    |
| DERATE FROM 25°C      |        | -1.2        | mW/°C |
| OPERATING TEMP.       |        | -30 TO +80  | °C    |
| STORAGE TEMP.         |        | -40 TO +100 | °C    |

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

CAUTION: STATIC SENSITIVE DEVICE  
FOLLOW PROPER E.S.D. HANDLING PROCEDURES  
WHEN WORKING WITH THIS PART.  
ESD CLASSIFICATION: CLASS II BASED ON MIL-STD 883E.



UNCONTROLLED DOCUMENT

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

REV. PART NUMBER  
SML-H1505SIUPGUSBW

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5mm SURFACE MOUNT DOMED LED,  
RED/GREEN/BLUE MILKY WHITE 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: CHECKED BY: APPROVED BY: DATE: 9.10.07  
PAGE: 1 OF 1  
SCALE: N/A