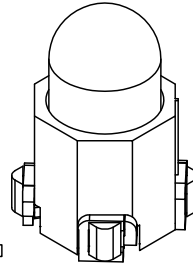
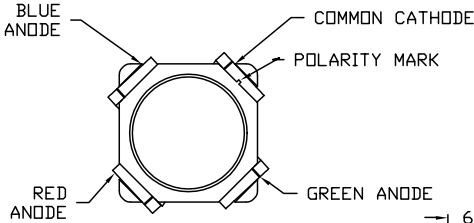


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PART NUMBER

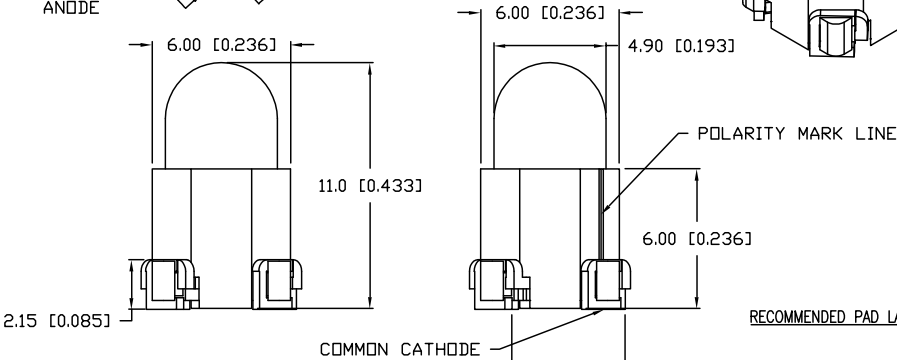
REV.

SML-H1505SIUPGUSBC



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

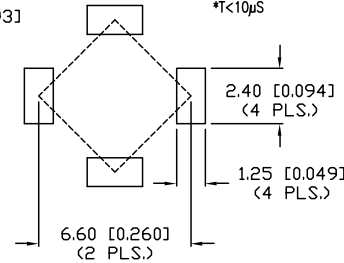
| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|-------------------------|----------------|---------------|-----|----------------|----------------------|
| PEAK WAVELENGTH | | 635 (RED) | | nm | |
| | | 465 (BLUE) | | nm | |
| | | 520 (GREEN) | | nm | |
| FORWARD VOLTAGE (R) | | 2.2 | 2.7 | V _f | |
| | (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 | | 70 | | 2x theta | |
| EMITTED COLOR: | RED/BLUE/GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |



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 |

RECOMMENDED PAD LAYOUT

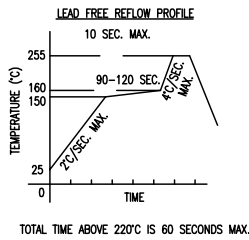


* $T < 10\mu\text{s}$

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.



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*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

REV. PART NUMBER
SML-H1505SIUPGUSBC

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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.

5mm SURFACE MOUNT DOMED LED,
RED/GREEN/BLUE WATER CLEAR LENS.

| | | | |
|-----------------|-------------|--------------|---|
| DRAWN BY: JN | CHECKED BY: | APPROVED BY: | DATE: 9.10.07 PAGE: 1 OF 1 SCALE: N/A |
|-----------------|-------------|--------------|---|