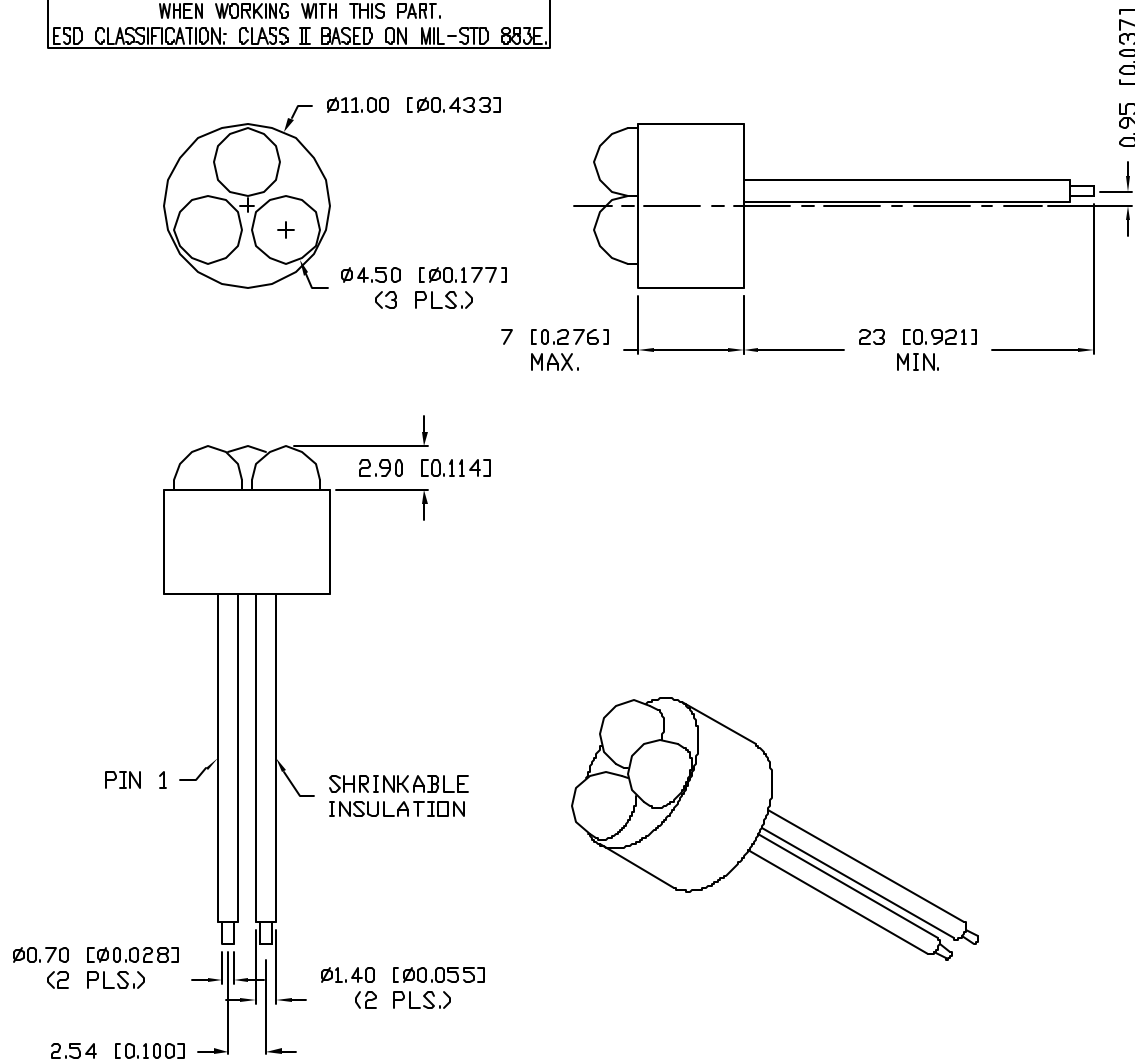


UNCONTROLLED DOCUMENT

PART NUMBER
SSP-LXC0432UP3

REV.

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.



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

| PARAMETER | MIN | TYP | MAX | UNITS | TEST COND |
|--------------------|------------------|------|------|----------|----------------------|
| PEAK WAVELENGTH | | 525 | | nm | |
| FORWARD VOLTAGE | | 10.5 | 12.0 | V_f | |
| REVERSE VOLTAGE | 5.0 | | | V_r | $I_r=100\mu\text{A}$ |
| AXIAL INTENSITY * | | 5000 | | mcd | $I_f=20\text{mA}$ |
| VIEWING ANGLE | | 30 | | 2x theta | |
| EMITTED COLOR: | ULTRA PURE GREEN | | | | |
| EPOXY LENS FINISH: | WATER CLEAR | | | | |

* INTENSITY PER DIE.

LIMITS OF SAFE OPERATION AT 25°C PER DIE

| PARAMETER | MAX | UNITS |
|--------------------------------|------------|----------------------|
| PEAK FORWARD CURRENT* | 100 | mA |
| STEADY CURRENT | 30 | mA |
| POWER DISSIPATION | 98 | mW |
| DERATE FROM 25°C | -1.0 | mW/ $^\circ\text{C}$ |
| OPERATING, STORAGE TEMP. | -30 TO +70 | $^\circ\text{C}$ |
| SOLDERING TEMP. | +260 | $^\circ\text{C}$ |
| 2.0mm FROM BODY | | 3 SEC. MAX |
| * $t < 10\mu\text{S}$ | | |

PIN OUT

PIN 1 PIN 2

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*TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), X.X=±0.5 (±0.020), X.XX=±0.25 (±0.010). LEAD LENGTH=±0.75 (±0.030). MIN= ^{+0.00}/_{-0.00} MAX= ^{+0.00}/_{-0.00} DECIMAL PRECISION

REV.

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CONFIDENTIAL INFORMATION

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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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0.43" CIRCULAR, 3 LED CLUSTER,
525nm InGaN/SiC GREEN LEDES, WATER CLEAR LENS.

DRAWN:
BC

CHECKED:

APPROVED:

DATE: 1.17.00
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