



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

| PARAMETER | SYMBOL | MIN | TYP | MAX | UNITS | TEST COND |
|---------------------|--------|------|-----|------|----------|---------------------|
| PEAK WAVELENGTH | | | - | | nm | |
| FORWARD VOLTAGE | V_f | | 3.2 | 4.0 | V | $I_f=350\text{mA}$ |
| REVERSE VOLTAGE | V_r | 5 | | | V | $I_f=10\mu\text{A}$ |
| AXIAL INTENSITY(*1) | I_v | 23 | | 39 | lm | $I_f=350\text{mA}$ |
| CHROMATICITY | X | 0.28 | | 0.36 | | $I_f=350\text{mA}$ |
| COORDINATES(*2) | Y | 0.25 | | 0.38 | | |
| VIEWING ANGLE | | | 120 | | 2x theta | |
| EMITTED COLOR: | WHITE | | | | | |
| EPOXY LENS FINISH: | CLEAR | | | | | |

*1. AXIAL INTENSITY TESTING CONDITION: 550nm WAVELENGTH.
*2. THE ICI STANDARD COLORIMETRIC SYSTEM.

LIMITS OF SAFE OPERATION AT 25°C

| PARAMETER | MAX | UNITS |
|--------------------------|------------|-------|
| PEAK FORWARD CURRENT* | 500 | mA |
| STEADY CURRENT | 350 | mA |
| POWER DISSIPATION | 2.1 | W |
| DERATE FROM 25°C | -1.2 | mW/°C |
| OPERATING, STORAGE TEMP. | -40 TO +85 | °C |

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

NOTES:

1. SML-LX2723UWC-TR
2. MOLEX 22-28-8063 OR EQUIVALENT
3. TYCO AMP 535676-5 OR EQUIVALENT
4. ANY 3 POSITION 0.100" HEADER W/JUMPER

*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



| | |
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| REV. | PART NUMBER LXP-LIGHTENGINE-W |
| 1 WATT HIGH POWER WHITE LED, PCB, W/CONNECTORS. | |

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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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| | | | SCALE: N/A |