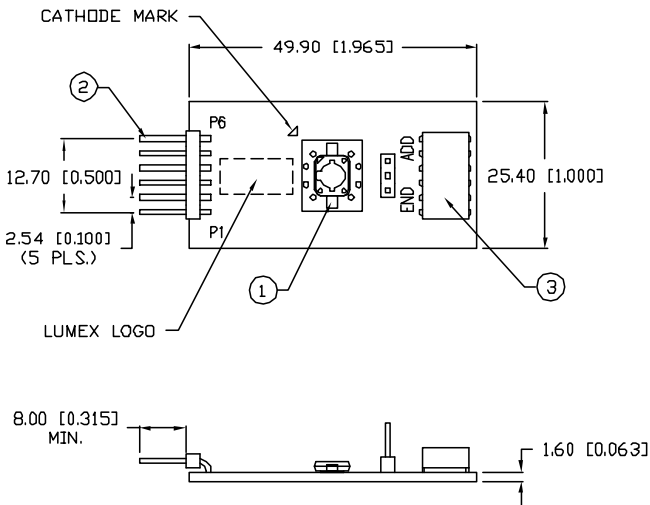


UNCONTROLLED DOCUMENT

PART NUMBER  
LXP-LIGHTENGINE-R

REV.



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

PARAMETER	SYMBOL	MIN	TYP	MAX	UNITS	TEST COND
PEAK WAVELENGTH			630		nm	
FORWARD VOLTAGE	$V_f$		2.0	2.9	V	$I_f=350\text{mA}$
REVERSE VOLTAGE	$V_r$	5			V	$I_r=10\mu\text{A}$
AXIAL INTENSITY	$I_v$	23		39	lm	$I_f=350\text{mA}$
VIEWING ANGLE			120		$2 \times \text{theta}$	
EMITTED COLOR:	RED					
EPOXY LENS FINISH:	CLEAR					

LIMITS OF SAFE OPERATION AT  $25^\circ\text{C}$

PARAMETER	MAX	UNITS
PEAK FORWARD CURRENT*	500	mA
STEADY CURRENT	350	mA
POWER DISSIPATION	1.5	W
DERATE FROM $25^\circ\text{C}$	-1.2	$\text{mW}/^\circ\text{C}$
OPERATING, STORAGE TEMP.	-40 TO +85	$^\circ\text{C}$

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

NOTES:

1. SML-LX272.3SIC-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 (±0.038), 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), NN=DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

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REV.	PART NUMBER LXP-LIGHTENGINE-R
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1 WATT HIGH POWER LED, 630nm SUPER RED,  
PCB, W/CONNECTORS.

**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: JN	CHECKED BY:	APPROVED BY:	DATE: 03.17.08 PAGE: 1 OF 1 SCALE: N/A
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