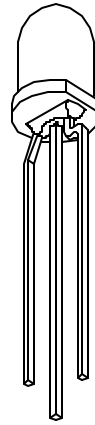
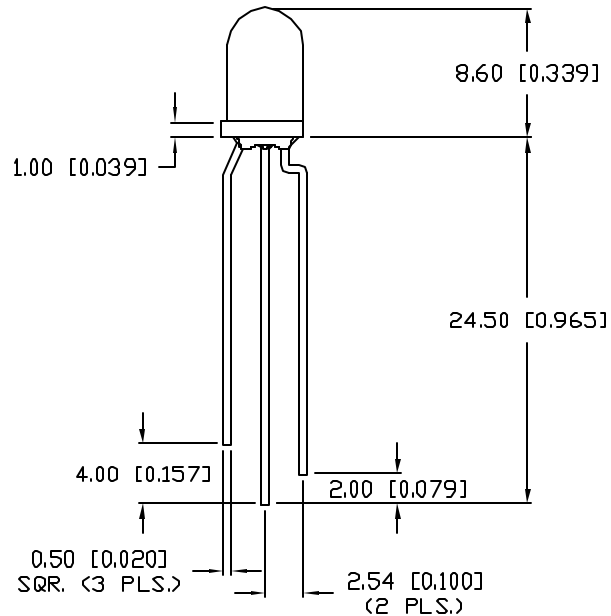
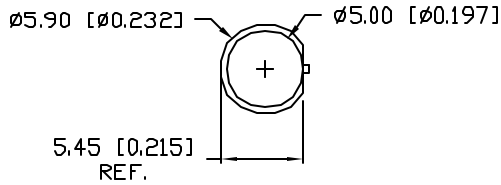


UNCONTROLLED DOCUMENT

PART NUMBER		REV.
SSL-LX5099LBISRSUB		A
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #11148	11.08.06



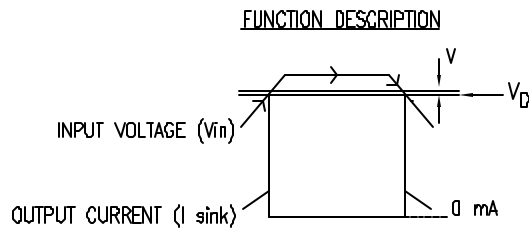
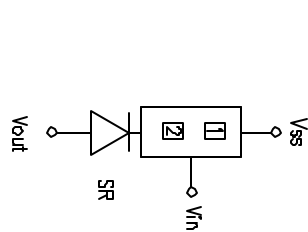
ELECTRO-OPTICAL CHARACTERISTICS $T_A=25^\circ\text{C}$

BATTERIES	3	4	5	6
PEAK WAVELENGTH	680 (RED)			
INPUT VOLTAGE (V_{in})	4.5	6.0	7.5	9.0
DETECTION VOLTAGE (V_d)	3.75	5.0	6.25	7.5
AXIAL INTENSITY (μcd)*	10	10	10	10
STANDBY CURRENT (I_{in} **)	5 μA	5 μA	5 μA	5 μA
HYSTERESIS VOLTAGE (V_{hyst})	150mV	200mV	250mV	300mV
OUTPUT SINK CURRENT (I_{sink} ***)	10.5 mA	10.5 mA	10.5 mA	10.5 mA
VIEWING ANGLE (TYP.)	60	60	60	60
OPERATING TEMPERATURE	0°C TO 85°C			
STORAGE TEMPERATURE	-40°C TO 100°C			
EMITTEND COLOR	RED			
EPOXY LENS FINISH:	RED DIFFUSED			

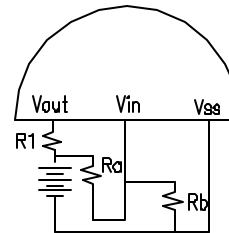
*TEST CONDITION AT 10.5mA

**TEST CONDITION AT INPUT VOLTAGE PER BATTERY COUNT

***TEST CONDITION AT DETECTION VOLTAGE PER BATTERY COUNT



EXTERNAL PARTS CONNECTION



THREE TO SIX BATTERY DETECTION

NOTES

$$1. V_D \approx \frac{R_a + R_b}{R_b} \times 2.5V$$

$$V_{hys} \approx \frac{R_a + R_b}{R_b} \times 100mV$$

2. PLEASE NOTE THAT WHEN VALUE OF R_a BECOMES EXCESSIVELY LARGE, THE DETECTION VOLTAGE MAY DIFFER FROM THE VALUE CALCULATED BY THE USE OF THE ABOVE FORMULA.

3. R_1 IS OPTIONAL FOR LIMITING OUTPUT CURRENT.

$$4. R_a + R_b < \frac{V_{bat}}{I_{in}} \times E\%, I_{in} \ll I_R,$$

E% = RESISTOR TOLERANCE



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*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.=^{+0.00}/_{-0.00} DECIMAL PRECISION, MAX.=^{+0.00}/_{-0.00} DECIMAL PRECISION

REV. A	PART NUMBER SSL-LX5099LBISRSUB	CONFIDENTIAL INFORMATION THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE PROPERTY OF LUMEX INC. EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING BY LUMEX INC, THE HOLDER OF THIS DOCUMENT SHALL KEEP ALL INFORMATION CONTAINED HEREIN CONFIDENTIAL AND SHALL PROTECT SAME IN WHOLE OR IN PART FROM DISCLOSURE AND DISSEMINATION TO ALL THIRD PARTIES.	LUMEX INCORPORATED	290 E. HELLEN ROAD PALATINE, ILLINOIS 60067 PHONE: (847) 359-2790 WEB: http://www.lumex.com
T-5mm (T-1 3/4) LOW BATTERY INDICATOR LED, 660nm SUPER RED, FOR 3~6 BATTERIES.		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: JC	CHECKED BY:
			APPROVED BY:	DATE: 11.08.06
				PAGE: 1 OF 1
				SCALE: N/A