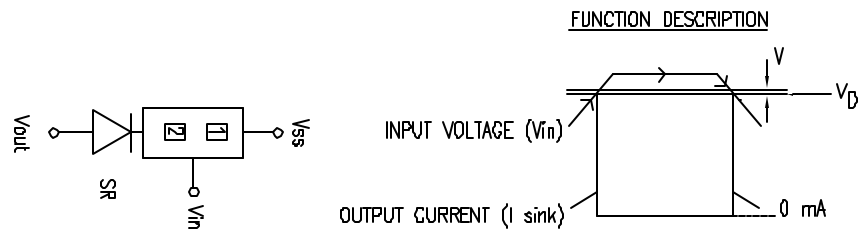
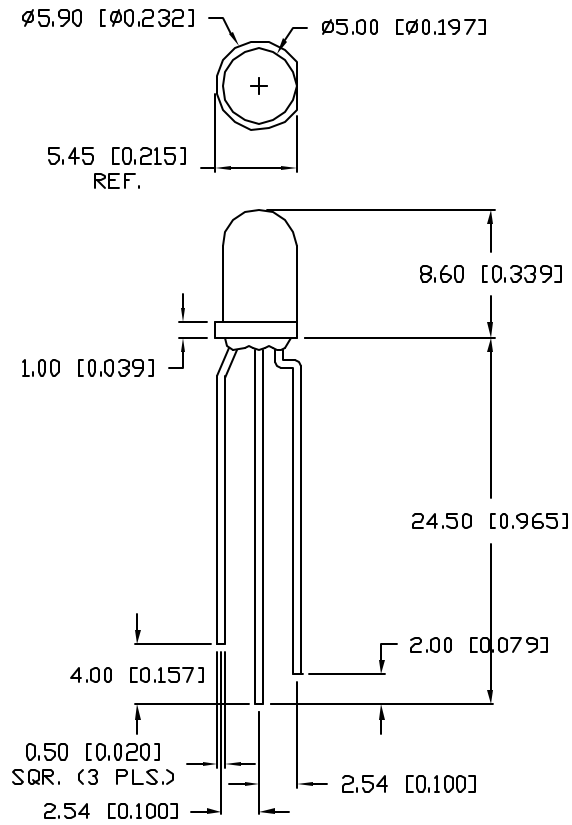
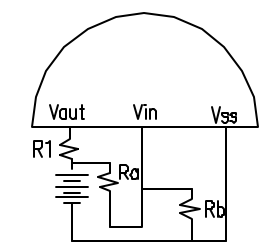


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EXTERNAL PARTS CONNECTION



THREE TO SIX BATTERY DETECTION

PART NUMBER		REV.
SSL-LX5099LBI-SRD		D
REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10BRDR. & REDRAWN.	???
B	E.C.N. #10BRDR. & REDRAWN.	???
C	E.C.N. #10BRDR. & REDRAWN.	???
D	E.C.N. #10BRDR. & REDRAWN.	???

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

BATTERIES	3	4	5	6
PEAK WAVELENGTH	660 (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 ( $\mu\text{cd}$ )*	10	10	10	10
STANDBY CURRENT ( $I_{in}$ )**	5 $\mu\text{A}$	5 $\mu\text{A}$	5 $\mu\text{A}$	5 $\mu\text{A}$
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

NOTES

- $V_D \approx \frac{R_a + R_b}{R_b} \times 2.5V$
- $V_{hys} \approx \frac{R_a + R_b}{R_b} \times 100mV$
- 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.
- $R_1$  IS OPTIONAL FOR LIMITING OUTPUT CURRENT.
- $R_a + R_b < \frac{V_{bat}}{I_{in}} \times E\%$ ,  $I_{in} \ll I_R$ .

E% = RESISTOR TOLERANCE



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\*UNLESS OTHERWISE SPECIFIED TOLERANCES PER DECIMAL PRECISION ARE: X=±1 (±0.039), 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.=<sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION MAX.=<sup>+0.00</sup>/<sub>-0.00</sub> DECIMAL PRECISION

REV.	PART NUMBER
D	SSL-LX5099LBI-SRD
T-5mm (T-1 3/4) LED, LOW BATTERY DETECTOR LED, SUPER RED, FOR 3~6 BATTERIES.	

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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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