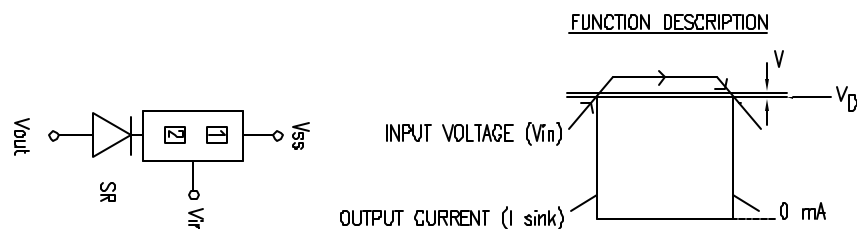
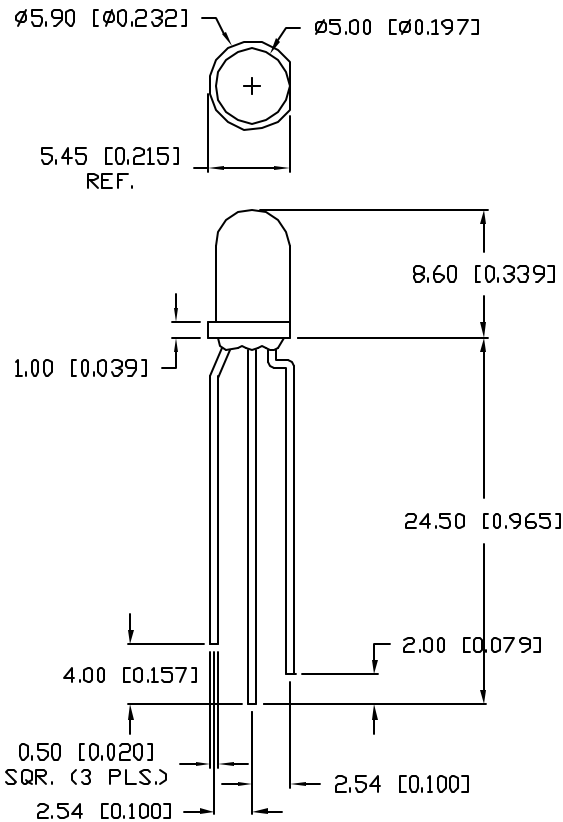
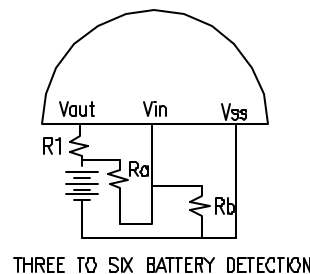


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FUNCTION DESCRIPTION

EXTERNAL PARTS CONNECTION



THREE TO SIX BATTERY DETECTION

PART NUMBER
SSL-LX5099LBI-SRD

REV.

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 (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

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), 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.=+0.00 DECIMAL PRECISION MAX.=+0.00 DECIMAL PRECISION

REV.

D

PART NUMBER

SSL-LX5099LBI-SRD

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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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T-5mm (T-1 3/4) LED, LOW BATTERY DETECTOR LED,
SUPER RED, FOR 3~6 BATTERIES.

DRAWN BY:

JC

CHECKED BY:

APPROVED BY:

DATE: 11.07.06

PAGE: 1 OF 1

SCALE: N/A