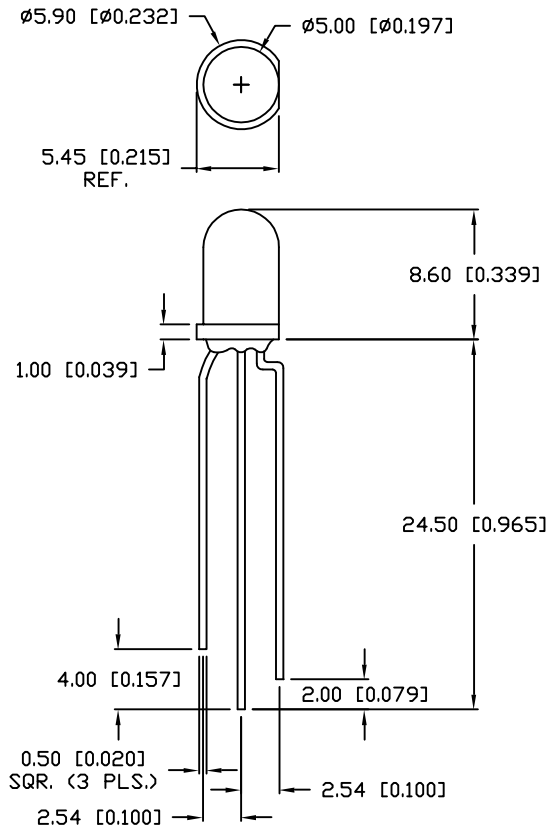


PART NUMBER  
SSL-LX5099LBI-SRD

REV.

C

REV.	E.C.N. NUMBER AND REVISION COMMENTS	DATE
A	E.C.N. #10192./	6-24-96
B	E.C.N. #10BRDR. & REDRAWN./	10-10-97
C	E.C.N. #10470./	10-23-98

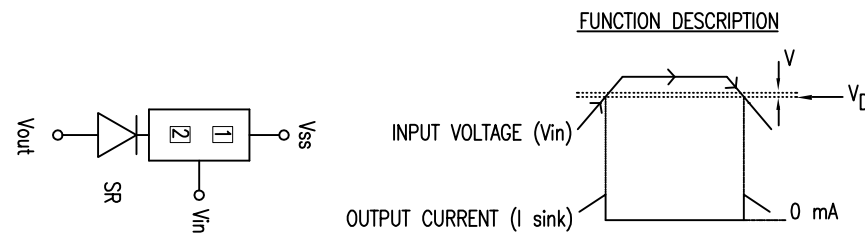
ELECTRO-OPTICAL CHARACTERISTICS  $T_A=25^\circ\text{C}$ 

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			

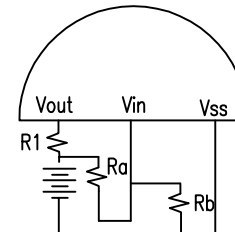
\*TEST CONDITON AT 10.5mA

\*\*TEST CONDITION AT INPUT VOLTAGE PER BATTERY COUNT

\*\*\*TEST CONDITION AT DETECTION VOLTAGE PER BATTERY COUNT



## EXTERNAL PARTS CONNECTION



## 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

\*UNLESS OTHERWISE SPECIFIED TOLERANCE IS  $\pm 0.25\text{mm}$  ( $\pm 0.010''$ )

REV.

C

PART NUMBER

SSL-LX5099LBI-SRD

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

## CONFIDENTIAL INFORMATION

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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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TM/BC

PAGE: 1 OF 1

SCALE: N/A