



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

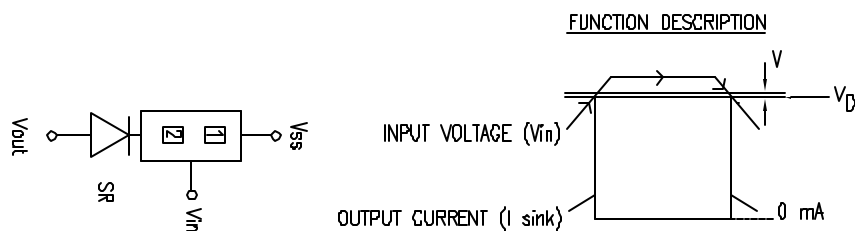
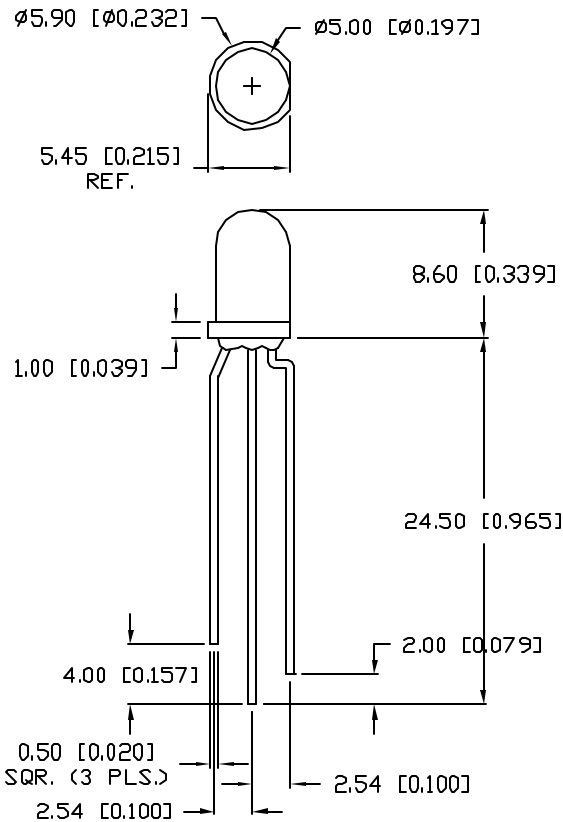
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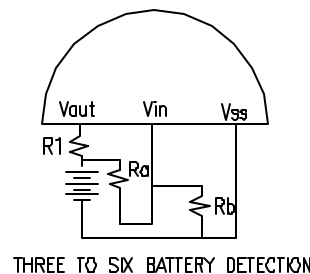
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UNCONTROLLED DOCUMENT



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. R1 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

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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