A U K Semiconductor

S7127AM

Bipolar Linear Integrated Circuit

Description

- As Control Circuit of Battery-Backed Memory
- As Measure Against Erroneous Operations at Power On-Off
- As Resetting Function for the CPU-Mounted Equipment --- PC, Printer, VTR, Fax, C-TV etc.
- As Measure Against System Runaway at Instantaneous Break of Power Supply etc.
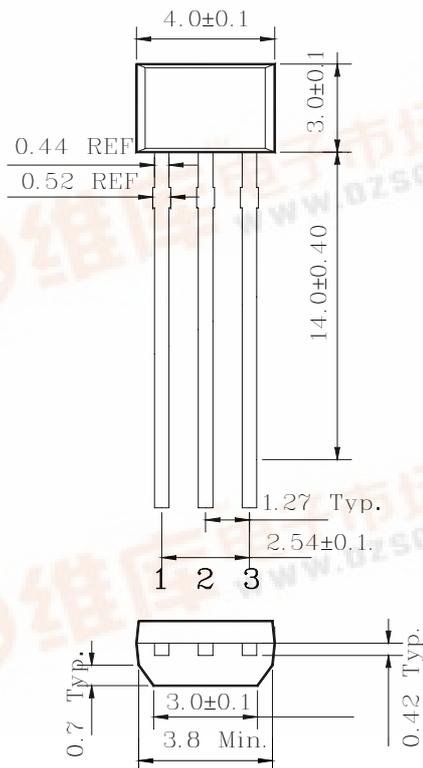
Features

- Current Consumption is Low   ($I_{CC}L$=300 μA Typ. $I_{CC}H$=30 μA Typ.)
- Resetting Output Minimum Guarantee Voltage is Low (0.8V Typ.)
- Hysteresis Voltage is Provided (50 mV Typ.)

Ordering Information

Type NO.	Marking	Package Code
S7127AM	S7127AM	TO-92M

Outline Dimensions   unit : mm
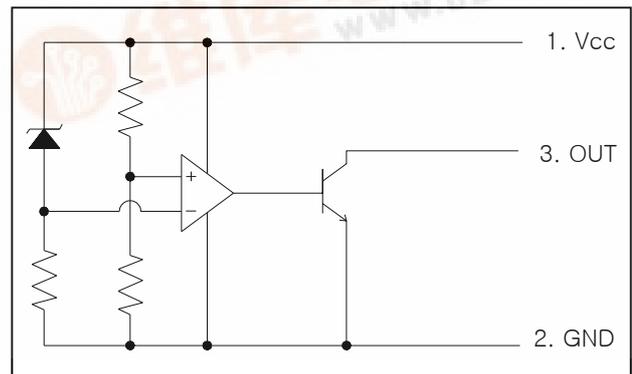

PIN Connections
1. Vcc
2. GND
3. OUT

Equivalent Circuit

1. Vcc

3. OUT

2. GND

Absolute maximum ratings

<div align="right">(Ta=25°C)</div>

Characteristic	Symbol	Ratings	Unit
Supply voltage	V_{CC}	-0.3 ~ +15	V
Power Dissipation (Package Limitation)	P_D	400	mW
Operating Temperature	T_{opr}	-30 ~ +75	℃
Storage Temperature	T_{stg}	-55 ~ +150	℃

Electrical Characteristics

<div align="right">(Ta=25°C)</div>

Characteristic	Symbol	Test Circuit	Test Condition	Min.	Typ.	Max.	Unit
Detecting voltage	V_S	1	R_L=200Ω , V_{OL}≤ 0.4V	2.55	2.7	2.85	V
Low Level Output voltage	V_{OL}	1	R_L=200Ω	-	-	0.4	V
Output Leakage Current	I_{OH}	1	V_{CC}=15V	-	-	0.1	μA
Hysteresis Voltage	$\triangle V_S$	1	R_L=200Ω	30	50	100	mV
Detecting Voltage Temperature Coefficient	$V_S/\triangle T$	1	R_L=200Ω	-	±0.01	-	%/℃
Circuit current at on Time	$I_{CC}L$	1	$V_{CC} = V_{Smin} - 0.05V$	-	300	500	μA
Circuit current at off Time	$I_{CC}H$	1	V_{CC}=5.25V	-	30	50	μA
Threshold Operating Voltage	V_{opr}	1	R_L=200Ω , V_{OL}≤ 0.4V	-	0.8	-	V
'L' Transmission Delay Time	t_PHL	2	R_L=1.0 kΩ, C_L=100 pF	-	10	-	μs
'H' Transmission Delay Time	t_PLH	2	R_L=1.0 kΩ, C_L=100 pF	-	15	-	μs
Output Current at on Time I	$I_{OL}I$	1	$V_{CC} = V_{Smin} - 0.05V$ Ta = 25℃	20	-	-	mA
Output Current at on Time II	$I_{OL}II$	1	$V_{CC} = V_{Smin} - 0.05V$ Ta = -30~+75℃	16	-	-	mA

Test Circuit 1
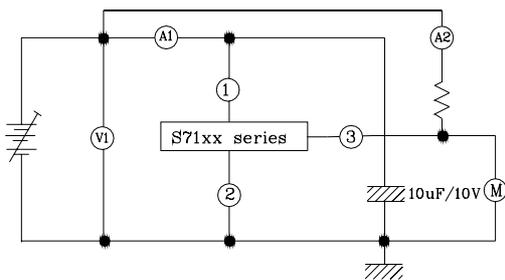
Test Circuit 2
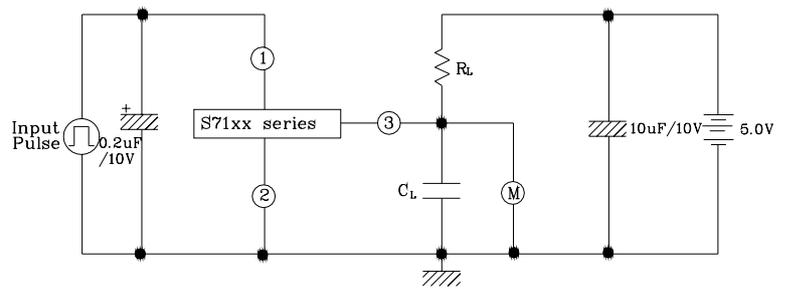
Electrical Characteristic Curves
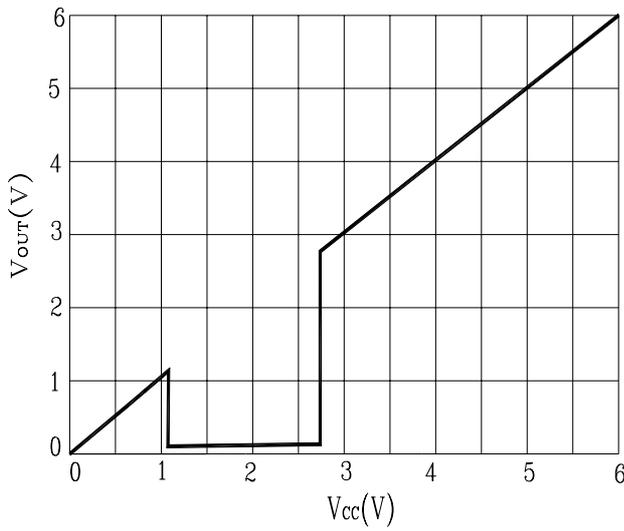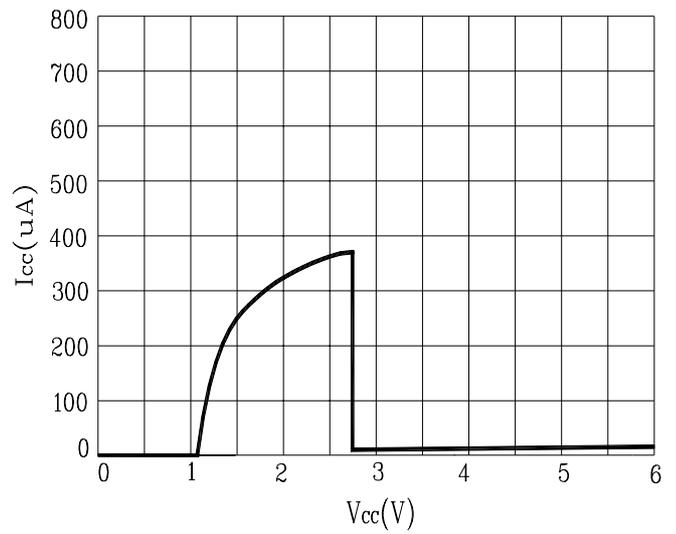
Fig. 1 $V_{OUT} - V_{CC}$

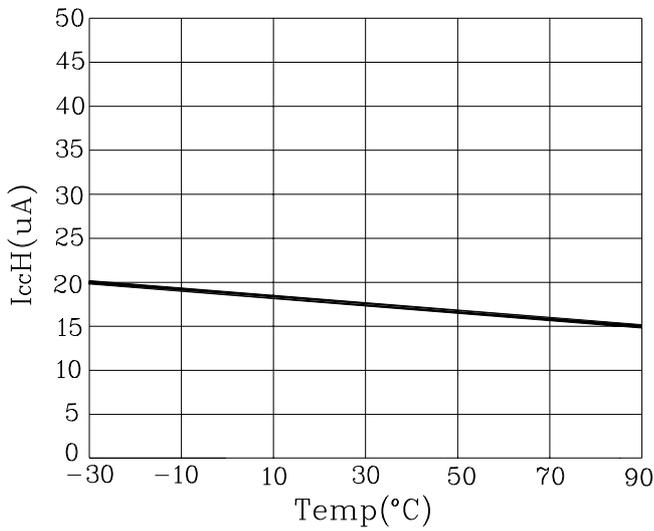**Fig. 2 $I_{CC} - V_{CC}$**

Fig. 3 $I_{CC}H$-Temp

Fig. 4 $I_{OL} - R_L$