Voltage Detector

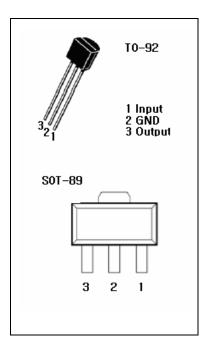
IL70XX

Features

- ◆ Current Consumption is Low.
- ◆ Resetting Output Minimum Guarantee Voltage is Low (0.8V Typ.)
- ◆ Hysteresis Voltage is Provided 50mV (Typ.)
- ◆ Reset Signal Generation starting Voltage. 2.9V 3.3V 3.7V 4.2V
 4.5V

Application

- ◆ As Control Circuit of Battery-Backed Memory
- ◆ As Measure Against Erroneous Operations at Power ON-OFF
- ◆ As Measure Against System Runaway at Instantaneous Break of Power Supply etc.
- ◆ As Resetting Function for the CPU-Mounted Equipment, such as Personal Computers, Printers, VTRs and so forth



Description

Function of this IC is accurately resetting the system after detecting voltage at the time of switching power at the time of switching power on and instantaneous power off in various CPU systems and other logic systems

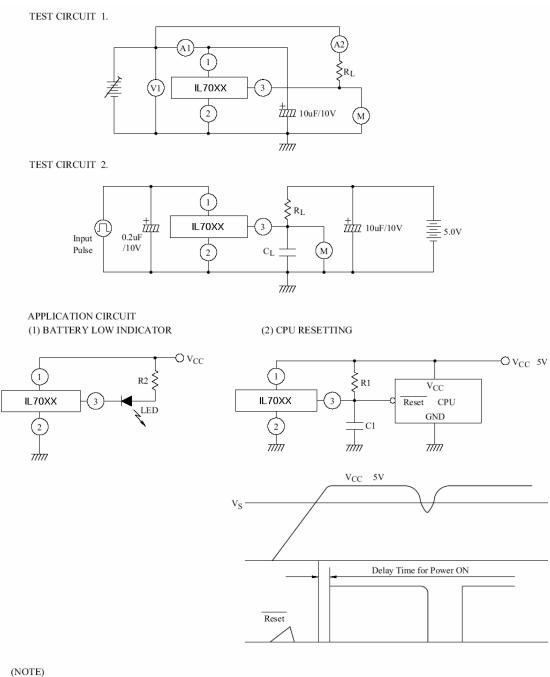


MAXIMUM RATINGS (Ta=25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Supply Voltage	Vcc	-0.3~+15.0	V
Power Dissipation (Package Limitation)	P _D	500	mW
Operation Temperature	Topr	-30~+75	°C

ELECTRICAL CHARACTERISTICS (Tj= +25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNIT
Detecting Voltage	Vs	R _L =200Ω	IL7029T2	2.75	2.9	3.05	V
		V _{OL} ≤0.4V	IL7033T2	3.15	3.3	3.45	
		"-	IL7037T2	3.55	3.7	3.85	
			IL7039T2	3.75	3.9	4.05	
			IL7042T2	4.05	4.2	4.35	
			IL7045T2	4.35	4.5	4.65	
Low-Level Output Voltage	V _{OL}	R _L =200Ω		-	-	0.4	V
Output Leakage Current	I _{OH}	Vcc=15V		-	-	0.1	μΑ
Histeresis Voltage	ΔVs	R _L =200Ω		30	50	100	mV
Circuit Current at on Time	IccL	Vcc=Vsmin -	0.05V	-	-	500	μΑ
Circuit Current at off Time	IccH	Vcc=5.25V		-	-	50	μΑ
Threshold Operating	Vopr	R _L =200Ω		-	0.8	-	V
Voltage		V _{OL} ≤0.4V					
Output Current	I _{OL}	Vcc=Vsmin – (Tc=25°C	0.05V	20	-	-	mA

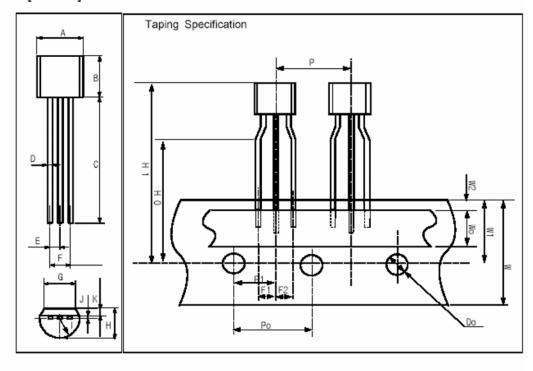


- (1) Connecting of LED and R2 obtains a voltage drop indicator.
- (2) Connecting of C1 and selection of time constant with C1 and R1 set the power on delay time.



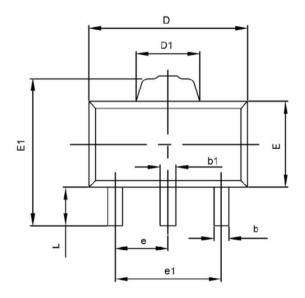
PACKAGE OUTLINE

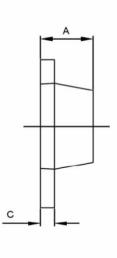
[TO-92]



Package Dimension(unit:mm)			Taping Dimension(unit:mm)				
Symbol	Min	Тур	Max	Symbol	Min	Тур	Max
А	4.43	4.58	4.83	Р	12.2	12.7	13.2
В	4.38	4.58	4.78	PO	12.5	12.7	12.9
С	14.07	14.47	14.87	P1	5.85	6.35	6.85
D	0.36	0.46	0.56	F1,F2	2.4	2.5	2.9
E	1.07	1.27	1.47	W	17.5	18.0	19.0
F	2.34	2.54	2.74	wo	5.5	6.0	6.5
G	3.40	3.60	3.80	W1	8.5	9.0	9.5
н		-	3.86	W2	-	-	1.0
1	-	[R2.29]	-	но	15.5	16.0	16.5
J	0.33	0.38	0.39	H1	-	-	27.0
К	0.92	1.02	1.12	DO	3.8	4.0	4.2

SOT-89-3L PACKAGE OUTLINE DIMENSIONS





Committee!	Dimensions I	n Millimeters	Dimensions in Inches		
Symbol	Min	Max	Min	Max	
Α	1.400	1.600	0.055	0.063	
b	0.320	0.520	0.013	0.020	
b1	0.360	0.560	0.014	0.022	
С	0.350	0.440	0.014	0.017	
D	4.400	4.600	0.173	0.181	
D1	1.400	1.800	0.055	0.071	
E	2.300	2.600	0.091	0.102	
E1	3.940	4.250	0.155	0.167	
e	1.500TYP		0.060TYP		
e1	2.900	3.100	0.114	0.122	
L	0.900	1.100	0.035	0.043	