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

FEATURES

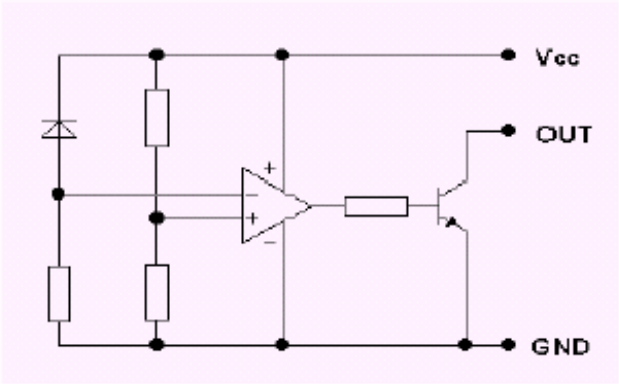
- Current Consumption is Low.
- Resetting Output Minimum Guarantee Voltage is Low. 0.8V Typ.
- Hysteresis Voltage is Provided. 50mV Typ.
- Reset Signal Generation Starting Voltage:

2.1;2.3;2.5;2.7;2.9;3.1;3.3;3.6;3.7;3.9;4.2;4.5 V Typ.

APPLICATIONS

- 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.

EQUIVALENT CIRCUIT



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 (T_j= +25°C, unless otherwise noted)

CHARACTERISTIC	SYMBOL	CONDITIONS		MIN	TYP	MAX	UNIT
Detecting Voltage	Vs	R_L=200Ω V_{OL}≤0.4V	IL7021T2	1.95	2.1	2.25	V
			IL7023T2	2.15	2.3	2.45	
			IL7025T2	2.35	2.5	2.65	
			IL7027T2	2.55	2.7	2.85	
			IL7029T2	2.75	2.9	3.05	
			IL7031T2	2.95	3.1	3.25	
			IL7033T2	3.15	3.3	3.45	
			IL7036T2	3.45	3.6	3.75	
			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	μA
Histeresis Voltage	ΔVs	R_L=200Ω		30	50	100	mV
Detecting Voltage Temperature Coefficient	Vs/ΔT	R_L=200Ω		-	±0.01	-	%/°C
Circuit Current at on Time	IccL	Vcc=Vsmin – 0.05V		-	-	500	μA
Circuit Current at off Time	IccH	Vcc=5.25V		-	-	50	μA
Threshold Operating Voltage	Vopr	R_L=200Ω V_{OL}≤0.4V		-	0.8	-	V
"L" Transmission Delay Time	tpHL	R_L=1.0k , C_L=100pF		-	10	-	μs
"H" Transmission Delay Time	tpLH	R_L=1.0k , C_L=100pF		-	15	-	μs
Output Current	I_{OL}	Vcc=Vsmin – 0.05V; Tc=25°C		20	-	-	mA