

KA75330

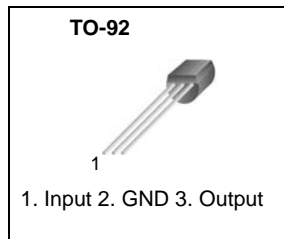
Voltage Detector

Features

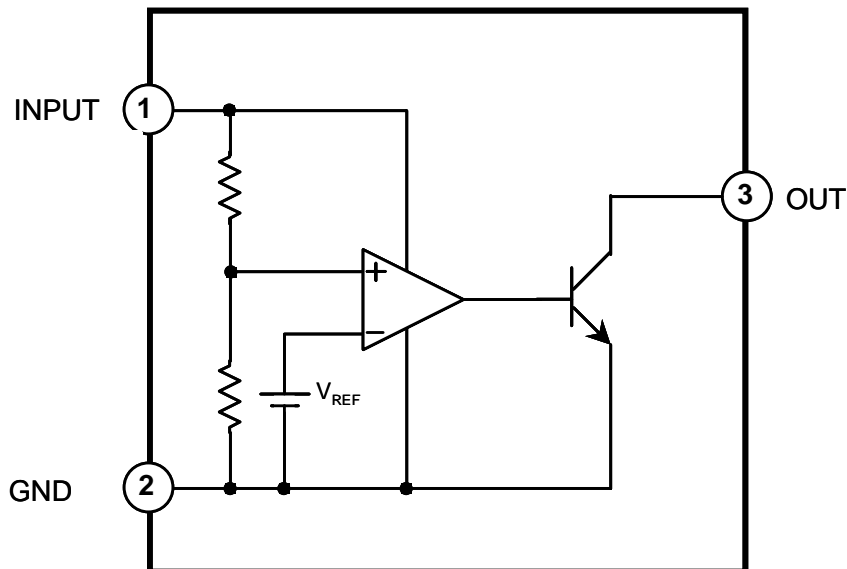
- Detecting Against Error Operations At The Power On/off.
- Resetting Function For The Low Voltage Microprocessor.
- Checking Low Battery

Description

The KA75330 prevents the error of system from supply voltage below normal voltage level at the time the power on and instantaneous power off in systems.



Internal Block Diagram



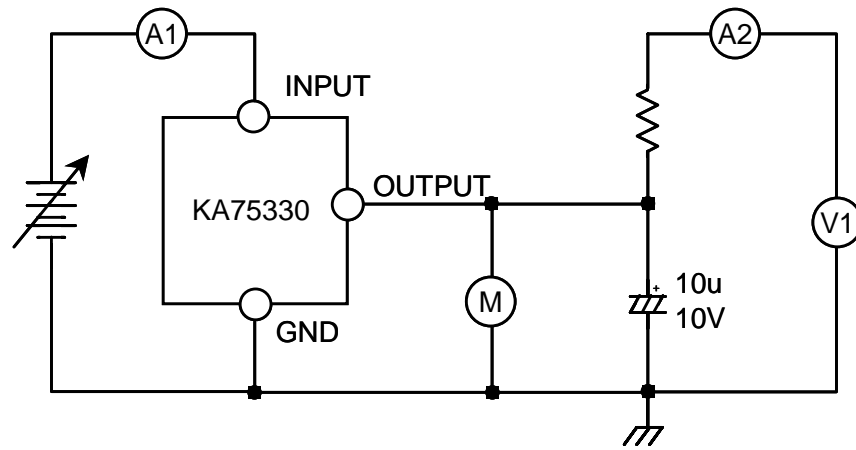
Absolute Maximum Rating (TA=25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	VCC	0.3 ~ +15.0	V
Detecting Voltage	VDET	3.3	V
Hysteresis Voltage	VHYS	50	mV
Operating Temperature	TOPR	-25 ~ +85	°C
Storage Temperature	TSTG	-50 ~ +150	°C
Power Dissipation (TO-92)	PD	200	mW
Detecting Voltage Temperature Coefficient	$\Delta V_{DET}/\Delta T$	RL = 200Ω, +0.01	%/°C

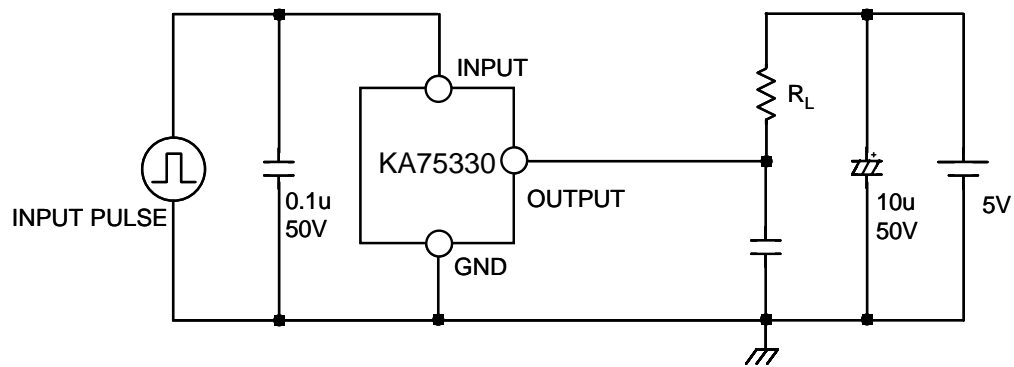
Electrical Characteristics (TA=25°C)

Characteristic	Symbol	Test Conditions	Min	Typ	Max	Unit
Detecting Voltage	VDET	RL = 200Ω, VOL ≤ 0.4V	3.15	3.3	3.45	V
Low Output Voltage	VOL	RL = 200Ω	-	-	0.4	V
Output Leakage Current	ILKG	VCC = 15V	-	-	0.1	uA
Hysteresis Voltage	VHYS	RL = 200Ω	30	50	100	mV
Detecting Voltage Temperature Coefficient	$\Delta V_{DET}/\Delta T$	RL = 200Ω	-	±0.01	-	%/°C
Circuit Current(At On Time)	ICCL	VCC = VDET(MIN) - 0.05V	-	300	500	uA
Circuit Current(At Off Time)	ICCH	VCC = 5.25V	-	30	50	uA
Threshold Operating Voltage	VTH(OPR)	RL = 200Ω, VOL ≤ 0.4V	-	0.8	1.0	V
" L"± Transmission Delay Time	TOL	RL = 1.0kΩ, CL = 100pF	0.6	10	-	us
" H"± Transmission Delay Time	TOH	RL = 1.0kΩ, CL = 100pF	-	15	20	us
Output Current (At On Time)	IOLI	VCC = VDET(MIN) - 0.05V, TA = 25°C	10	20	30	mA
Output Current (At On Time)	IOLII	VCC = VDET(MIN) - 0.05V TA = -25 ~ +85°C	8	16	30	mA

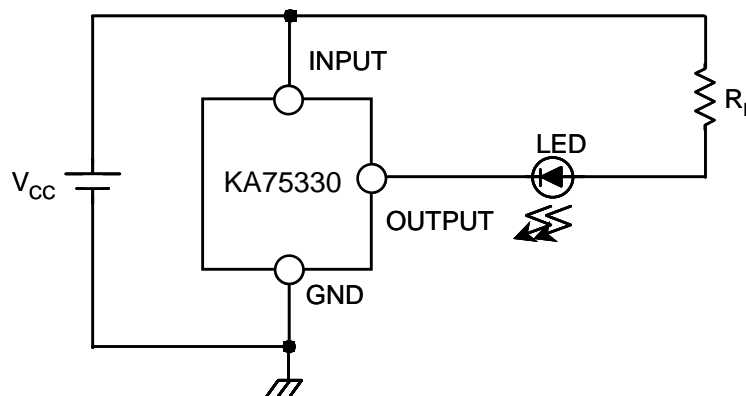
Test Circuit 1.



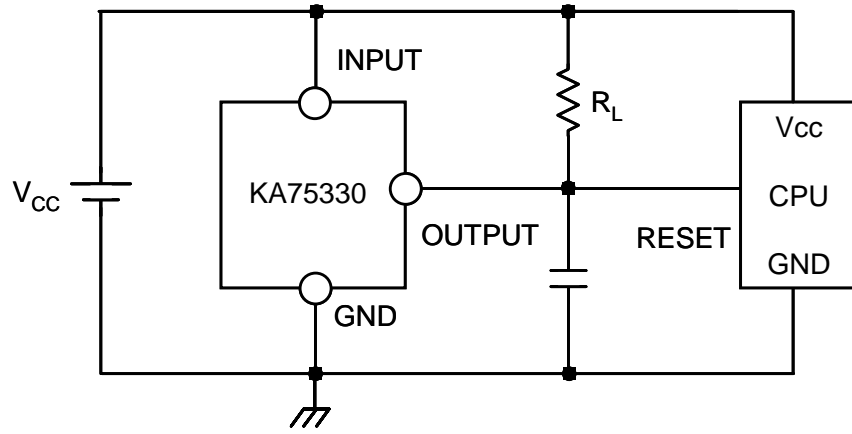
Test Circuit 2.



Test Circuit 3.

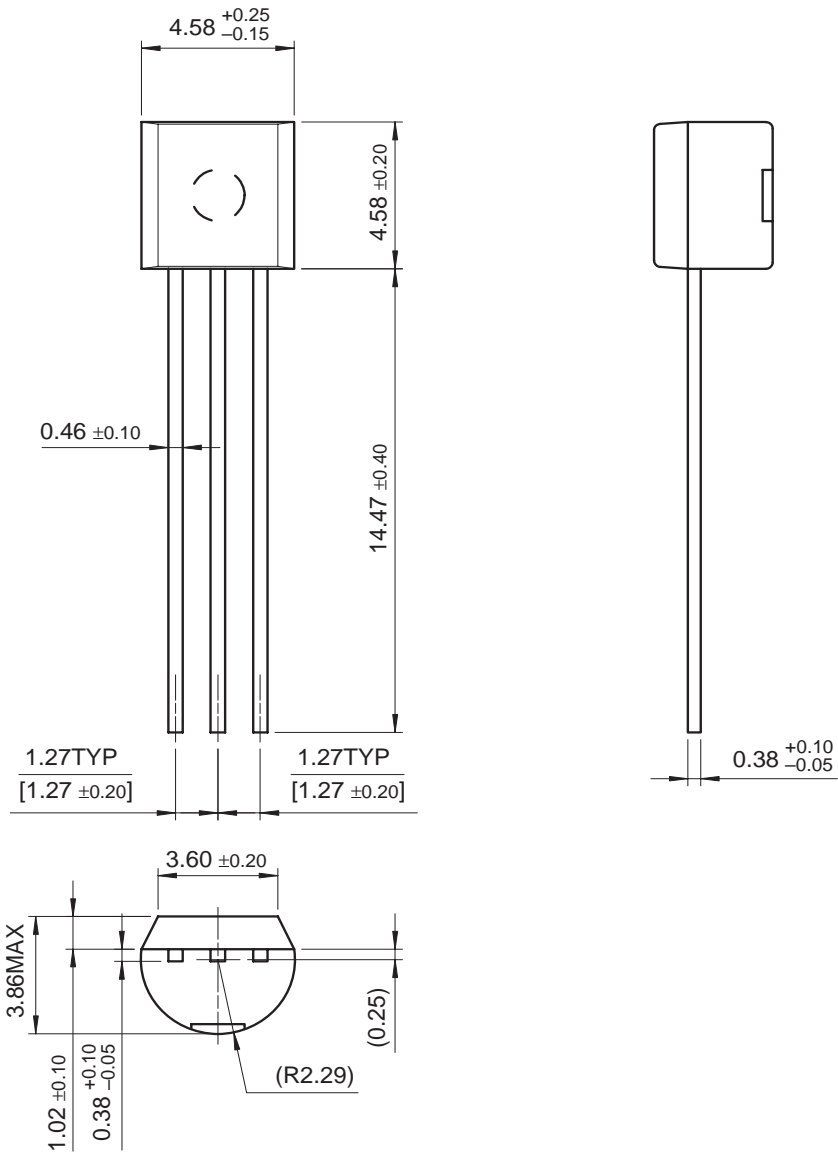


Application Circuit



Mechanical Dimensions**Package**

Dimensions in millimeters

TO-92

Ordering Information

Product Number	Package	Operating Temperature
KA75330Z	TO-92	-25 ~ +85°C

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