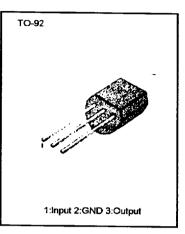


3.3V VOLTAGE DETECTOR

The KA7533 prevents error of system from supply voltage below normal voltage level at the time the power on and instantaneous power off in systems.



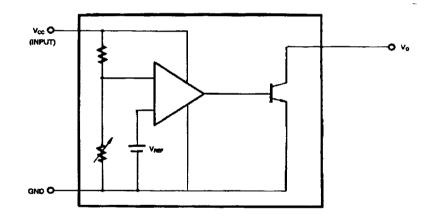
FEATURES

- · Detecting against error operations at the power ON/OFF.
- · Reaetting function for the low voltage microprocessor.
- · Checking low battery.

ORDERING INFORMATION

Device	Package	Operating Temperature
KA7533Z	TO-92	-30~+75℃

BLOCK DIAGRAM





ABSOLUTE MAXIMUM RATING (TA = 25°C)

Characteristic	Symbol	Value	Unit
Supply Voltage	Vcc	00.3 ~ +15.0	v
Detecting Voltage	VDET	3.3	v
Hysteresis Voltage	VHYS	50	mV
Operating Temperature	TOPR	- 30 ~ + 75	τ
Storage Temperature	Tstg	- 50 ~ + 150	τ
Power Dissipation	Po	200	mW
Detecting Voltage Temperature Coefficient	ΔV _{DET} /ΔT	± 0.01	%/°C

ELECTRICAL CHARACTERISTICS (TA = 25°C)

Characteristic	Symbol	Test Conditions	Min	⊤ур	Max	Unit
Detecting Voltage	VDET	R _L = 200Ω, V _{OL} ≤0.4V	3.15	3.3	3.45	v
Low Output Voltage	Vol	R _L = 200Ω		—	0.25	v
Output Leakage Current	I _{LKG}	V _{cc} = 15V	_	—	0.1	μA
Hystersis Voltage	V _{HYS}	R _L = 200Ω	30	50	100	mV
Detecting Voltage Temperature Coefficient	$\Delta V_{DET} / \Delta T$	R _L = 200Ω		± 0.1		%/℃
Circuit Current (at on time)	IccL	V _{CC} = V _{DET(MIN)} - 0.05V	-	300	500	μA
Circuit Current (at off time)	Іссн	V _{CC} = 5.25V	-	30	50	μA
Threshold Operating Voltage	VTH(OPR)	R _L = 200Ω, V _{OL} ≤0.4V	0.6	0.8	1.0	V
"L" Transmission Delay Time	loL	$R_{L} = 1.0K\Omega, C_{L} = 100pF$		10	15	μS
"H" Transmission Delay Time	toн	$R_{L} = 1.0K\Omega, C_{L} = 100pF$	- 1	15	20	μS
Output Current (at on time I)	lou	V _{CC} = V _{DET(MIN)} - 0.05V, T _C = 25°C	10	18	28	mA
Output Current (at on time II)	JOLII	$V_{cc} = V_{DET(MIN)} - 0.05V,$ $T_c = -30 \sim + 75 ^{\circ}C$	8	16	30	mA

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