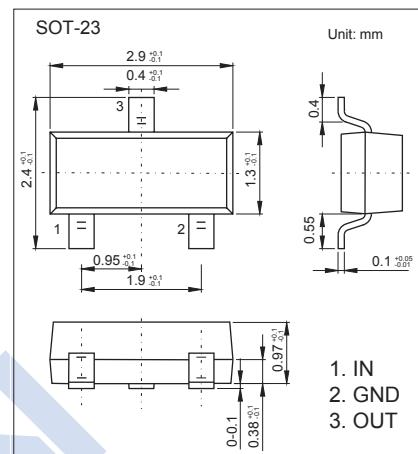
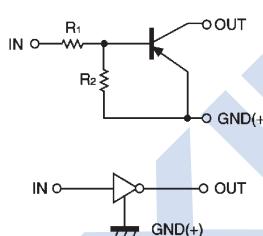


Digital Transistors

KTA201

■ Features

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit)
- The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input. They also have the advantage of almost completely eliminating parasitic effects
- Only the on/off conditions need to be set for operation, making device design easy



■ Absolute Maximum Ratings Ta = 25°C

Parameter	Symbol	Rating	Unit
Supply Voltage	Vcc	-50	V
Input Voltage	Vin	-30~10	
Output Current	Io	-100	mA
Power Dissipation	Pd	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature range	Tstg	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input voltage	Vi(off)	Vcc= -5 V , Io=-100 uA	-0.5			V
	Vi(on)	Vo= -0.3 V , Io=-20 mA			-3	
Output voltage	VO(on)	Io= -10 mA, II=-0.5 mA			-0.3	
Input current	II	VI= -5 V			-1.8	mA
Output current	Io(off)	Vcc= -50 V , VI=0			-0.5	uA
DC current gain	GI	VO=-5V,IO=-10mA	30			
Input resistance	R1		3.29	4.7	6.11	KΩ
Resistance ratio	R2/R1		8	1	1.2	
Transition frequency	fT	VO= -10V, IO= 5mA,f=100MHz		250		MHz

■ Marking

Marking 13

Digital Transistors

KTA201

■ Typical Characteristics

