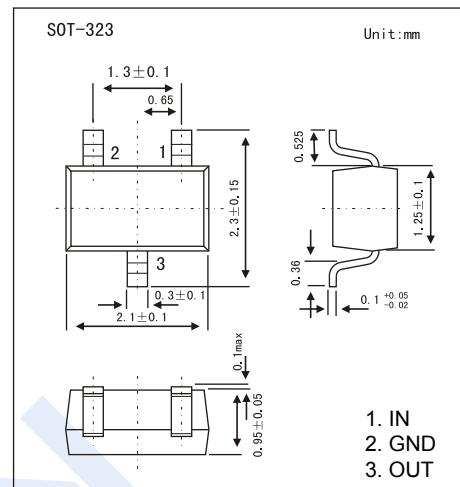
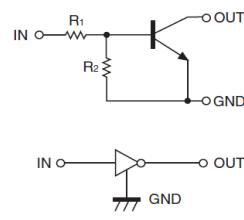


## Digital Transistors

### DTC144EUA (KDTC144EUA)

#### ■ 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	-10~40	
Output Current	Io	30	mA
Peak Collector Current	Icm	100	
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=2 mA			3	
Output voltage	Vo(on)	Io= 10 mA, Ii=0.5 mA			0.3	
Input current	Ii	Vi= 5 V			0.18	mA
Output current	Io(off)	Vcc= -50 V , Vi =0			0.5	uA
DC current gain	Gi	Vo=5V,Io=5mA	68			
Input resistance	R1		32.9	47	61.1	KΩ
Resistance ratio	R2/R1		0.8	1	1.2	
Transition frequency	ft	Vo= 10V, Io= 5mA,f=100MHz		250		MHz

#### ■ Marking

Marking	26
---------	----

## Digital Transistors

### DTC144EUA (KDTC144EUA)

#### ■ Typical Characteristics

