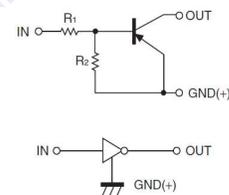
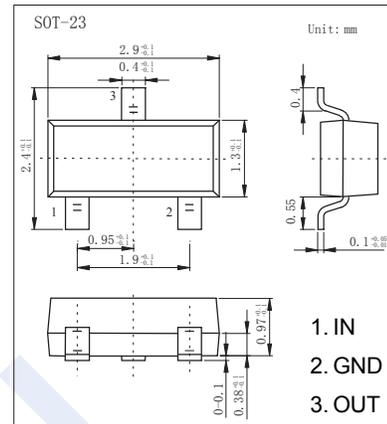


Digital Transistors

DTA144EKA (KDTA144EKA)

■ 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	V _{CC}	-50	V
Input Voltage	V _{IN}	-40 to 10	
Output Current	I _O	-30	mA
Collector Current-Pulse	I _{CP}	-100	
Power Dissipation	P _d	200	mW
Junction Temperature	T _J	150	°C
Storage Temperature range	T _{stg}	-55 to 150	

■ Electrical Characteristics Ta = 25°C

Parameter	Symbol	Test Conditions	Min	Typ	Max	Unit
Input voltage	V _{I(off)}	V _{CC} =-5V, I _O =-100μA	-0.5			V
	V _{I(on)}	V _O =-0.3V, I _O =-2 mA			-3	
Output voltage	V _{O(on)}	I _O =-10mA, I _I =-0.5mA			-0.3	
Input current	I _I	V _I = -5 V			-0.18	mA
Output current	I _{O(off)}	V _{CC} =-50V, V _I =0			-0.5	μA
Input resistance	R ₁		32.9	47	61.1	KΩ
Resistance ratio	R ₂ /R ₁		0.8	1	1.2	
DC current gain	h _{FE}	V _O =-5V, I _O =-5mA	68			
Transition frequency	f _r	V _O =-10V, I _O =-5mA, f=100MHz		250		MHz

■ Marking

Marking	16
---------	----

Digital Transistors

DTA144EKA (KDTA144EKA)

■ Typical Characteristics

