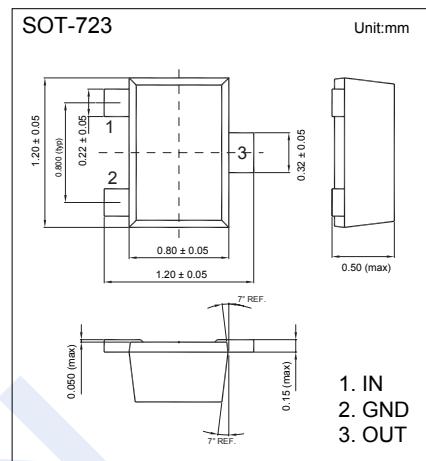
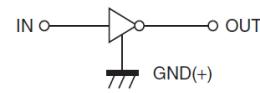
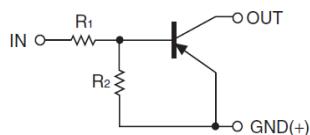


Digital Transistors

DTA114EM (KDTA114EM)

■ 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	-40~+10	
Output Current	Io	-50	mA
Peak Collector Current	Icm	-100	
Power Dissipation	Pd	100	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	V _i (off)	Vcc= -5 V , Io=-100uA	-0.5			V
	V _i (on)	Vo= -0.3 V , Io=-10 mA			-3	
Output voltage	Vo(on)	Io= -10 mA, Ii= -0.5 mA			-0.3	
Input current	Ii	Vi= -5 V			-0.88	mA
Output current	Io(off)	Vcc= -50V , Vi=0			-0.5	uA
DC current gain	G _i	Vo=-5V,Io=-5mA	30			
Input resistance	R _i		7	10	13	KΩ
Resistance ratio	R ₂ /R ₁		0.8	1	1.2	
Transition frequency	f _t	Vo= -10V, Io= -5mA,f=100MHz		250		MHz

■ Marking

Marking	14
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Digital Transistors

DTA114EM (KDTA114EM)

■ Typical Characteristics

