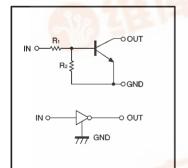
Transisto 查询DTC143XE供应商

Digital transistors (built-in resistors) DTC143XE / DTC143XUA / DTC143XKA DTC143XSA

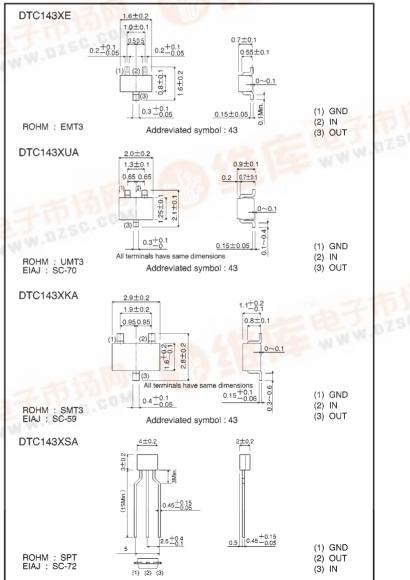
Features

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit).
- The bias resistors consist of thinfilm resistors with complete isolation to allow negative 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.

Equivalent circuit







(945-683-0143

Transistors

DTC143XE/DTC143XUA/DTC143XKA/DTC143XSA

•Absolute maximum ratings (Ta = 25° C)

Parameter	Symbol		Unit			
		Ш	UA	KA	SA	
Supply voltage	Vcc		V			
Input voltage	Vin		V			
Output current	lo		mA			
	IC(Max.)					
Power dissipation	Pd	150	20	00	300	mW
Junction temperature	Tj		ĉ			
Storage temperature	Tstg		ĉ			

•Electrical characteristics (Ta = 25° C)

Parameter	Symbol	Min.	Тур.	Max.	Unit	Conditions
Input voltage	VI(off)			0.3	v	Vcc=5V, Io=100 µ A
	VI(on)	2.5	_	_		Vo=0.3V, Io=20mA
Output voltage	VO(on)	_	0.1	0.3	V	lo/li=10mA/0.5mA
Input current	h	_	_	1.8	mA	V1=5V
Output current	IO(off)		_	0.5	μA	Vcc=50V, Vi=0V
DC current gain	Gi	30	-	-	-	Vo=5V, lo=10mA
Input resistance	Rı	3.29	4.7	6.11	kΩ	_
Resistance ratio	R2/R1	1.7	2.1	2.6	_	—
Transition frequency	f⊤	_	250	_	MHz	Vce=10V, Ie=-5mA, f=100MHz *

* Transition frequency of the device

Packaging specifications

	Package	EMT3	UMT3	SMT3	SPT
Packaging type		Taping	Taping	Taping	Taping
	Code	TL	T106	T146	TP
Part No.	Basic ordering unit (pieces)	3000	3000	3000	5000
DTC143XE		0	—	_	_
DTC143XUA		—	0	—	_
DTC143XKA		—	_	0	_
DTC143XSA		—	—	_	0

Transistors

DTC143XE/DTC143XUA/DTC143XKA/DTC143XSA

Electrical characteristic curves

