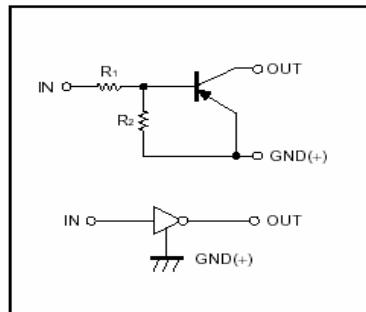
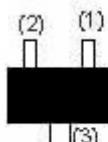


FEATURES

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

● Equivalent circuit**PIN CONNECTIONS AND MARKING**

DTA143EE

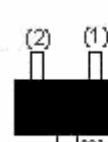


1.IN
2.GND
3.OUT

SOT-523

Abbreviated symbol: 13

DTA143EUA

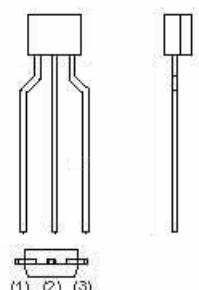


SOT-323

1.IN
2.GND
3.OUT

Abbreviated symbol: 13

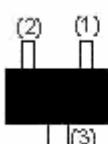
DTA143ESA



TO-92S

1.GND
2.OUT
3.IN

DTA143ECA



SOT-23

1.IN
2.GND
3.OUT

Abbreviated symbol: 13

Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Limits (DTA143E□)				Unit		
		E	UA	CA	SA			
Supply voltage	V _{CC}	-50				V		
Input voltage	V _{IN}	-30~10				V		
Output current	I _O	-100				mA		
	I _{C(MAX)}	-100						
Power dissipation	P _d	150	200		300	mW		
Junction temperature	T _j	150				°C		
Storage temperature	T _{STG}	-55~150				°C		

Electrical characteristics (Ta=25°C)

Parameter	Symbol	Min.	Typ	Max.	Unit	Conditions
Input voltage	V _{I(off)}			-0.5	V	V _{CC} =-5V , I _O =-100μA
	V _{I(on)}	-3				V _O =-0.3V , I _O =-20 mA
Output voltage	V _{O(on)}			-0.3	V	I _O /I _I =-10mA/-0.5mA
Input current	I _I			-1.8	mA	V _I =-5V
Output current	I _{O(off)}			-0.5	μA	V _{CC} =-50V , V _I =0
DC current gain	G _I	30				V _O =-5V , I _O =-10mA
Input resistance	R _I	3.29	4.7	6.11	KΩ	
Resistance ratio	R ₂ /R ₁	0.8	1	1.2		
Transition frequency	f _T		250		MHz	V _O =-10V , I _O =5mA,f=100MHz

Typical Characteristics
