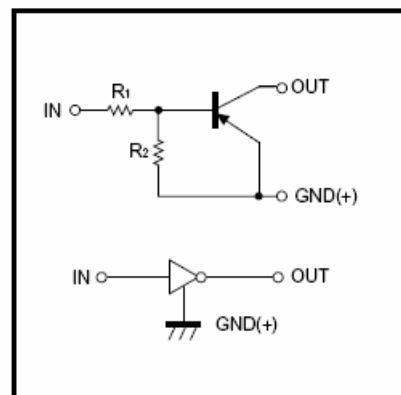


TRANSISTOR(PNP)

Features

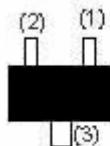
- 1) Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors(see equivalent circuit).
- 2) The bias resistors consist of thin-film resistors with complete isolation to allow positive biasing of the input. They also have the advantage of almost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

●Equivalent circuit



PIN CONNECTIONS AND MARKING

DTA123JE

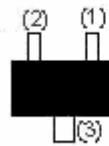


1.IN
2.GND
3.OUT

SOT-523

Addreviated symbol: E32

DTA123JUA

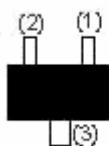


1.IN
2.GND
3.OUT

SOT-323

Addreviated symbol: 132

DTA123JKA

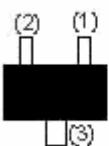


1.IN
2.GND
3.OUT

SOT-23-3L

Addreviated symbol: E32

DTA123JCA

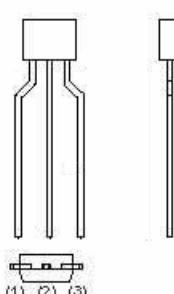


1.IN
2.GND
3.OUT

SOT-23

Addreviated symbol: E32

DTA123JSA



1.GND
2.OUT
3.IN

TO-92S

Absolute maximum ratings(Ta=25°C)

Parameter	Symbol	Limits (DTA123J□)					Unit
		E	UA	KA	CA	SA	
Supply voltage	V _{CC}			-50			V
Input voltage	V _{IN}			-12~+5			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)}	-1.1				V _O =-0.3V, I _O =-5mA
Output voltage	V _{O(on)}		-0.1	-0.3	V	I _O /I _I =-5mA/-0.25mA
Input current	I _I			-3.6	mA	V _I =-5V
Output current	I _{O(off)}			-0.5	μA	V _{CC} =-50V, V _I =0
DC current gain	G _I	80				V _O =-5V, I _O =-10mA
Input resistance	R _I	1.54	2.2	2.86	KΩ	-
Resistance ratio	R ₂ /R ₁	17	21	26		-
Transition frequency	f _T		250		MHz	V _O =-10V, I _O =-5mA, f=100MHz

Typical Characteristics
