

Micro Commercial Components

Micro Commercial Components 20736 Marilla Street Chatsworth CA 91311 Phone: (818) 701-4933 Fax: (818) 701-4939

DTA143ZE

Features

- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- 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.
- Only the on/off conditions need to be set for operation, making device design easy

Absolute maximum ratings @ 25°C

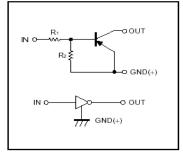
Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		-50		V
V _{IN}	Input voltage	-30		5.0	V
I _O I _{C(MAX)}	Output current		-100 -100		mA
Pd	Power dissipation		150		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

 Case Material: Molded Plastic. UL Flammability Classification Rating 94V-0 and MSL Rating 1

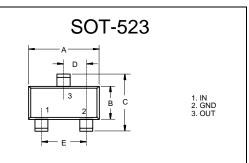
Electrical Characteristics @ 25°C

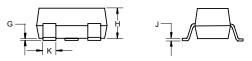
Symbol	Parameter		Тур	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =-5V, I _O =-100 µ A)			-0.5	V
V _{I(on)}	(V _o =-0.3V, I _o =-5mA)	-1.3			V
V _{O(on)}	Output voltage (I ₀ /I _I =-5mA/-0.25mA			-0.3	V
I,	Input current (V _I =-5V)			-1.8	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μA
G	DC current gain (Vo=-5V, Io=-10mA)	80			
R1	Input resistance	3.29	4.7	6.11	KΩ
R_2/R_1	Resistance ratio	8.0	10	12	
f _T	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

Equivalent circuit



PNP Digital Transistors





DIMENSIONS						
	INC	INCHES		MM		
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.030	.033	0.75	0.85		
С	.057	.069	1.45	1.75		
D	.020 Nominal		0.50Nominal			
E	.035	.043	0.90	1.10		
G	.000	.004	.000	.100		
Н	.028	.031	.70	0.80		
J	.004	.008	.100	.200		
ĸ	010	014	25	25		

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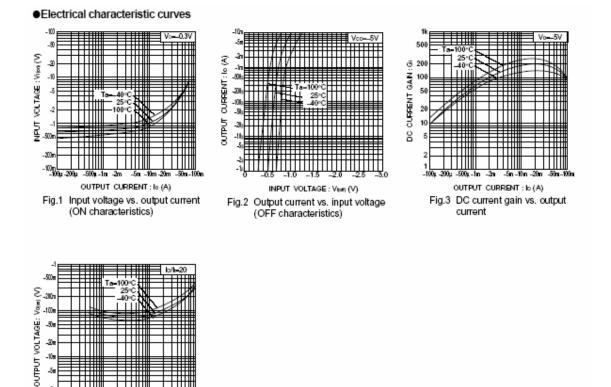
OUTPUT CURRENT : Io (A) Fig.4 Output voltage vs. output

current

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Ordering Information

Device	Packing
(Part Number)-TP	Tape&Reel3Kpcs/Reel

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