

Micro Commercial Components

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DTA124EE

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°

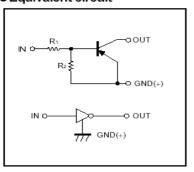
Symbol	Parameter	Min	Тур	Max	Unit
V_{cc}	Supply voltage		-50		V
V_{IN}	Input voltage	-40		10	V
I _O I _{C(MAX)}	Output current		-30 -100		mA
P_d	Power dissipation		150		mW
Tj	Junction temperature		150		$^{\circ}\mathbb{C}$
T _{stg}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$

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

Electrical Characteristics @ 25°℃

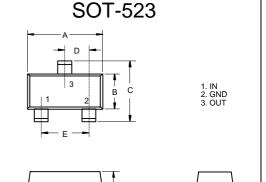
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)		-	-0.5	V
$V_{I(on)}$	$(V_0=-0.2V, I_0=-5mA)$	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
l _l	Input current (V _I =-5V)			-0.36	mA
$I_{O(off)}$	Output current (V _{CC} =-50V, V _I =0)			-0.5	μА
Gı	DC current gain (V ₀ =-5V, I ₀ =-5mA)	56			
R ₁	Input resistance	15.4	22	28.6	$\mathbf{K}\Omega$
R_2/R_1	Resistance ratio	0.8	1.0	1.2	
f _T	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

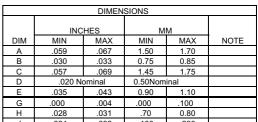
● Equivalent circuit



PNP Digital Transistors







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Electrical characteristic curves

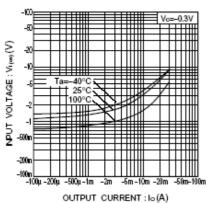


Fig.1 Input voltage vs. output current (ON characteristics)

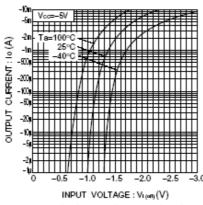


Fig.2 Output current vs. input voltage (OFF characteristics)

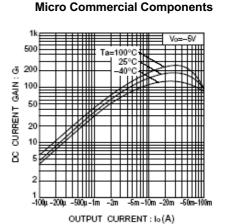


Fig.3 DC current gain vs. output current

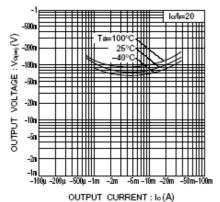


Fig.4 Output voltage vs. output current



Ordering Information

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

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