

Micro Commercial Components

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DTA124EUA

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°

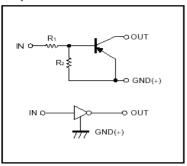
Symbol	Parameter	Min	Тур	Max	Unit
V_{cc}	Supply voltage		-50		V
V_{IN}	Input voltage	-40		10	V
I _O I _{C(MAX)}	Output current		-30 -100		mA
P_d	Power dissipation		200		mW
Tj	Junction temperature		150		$^{\circ}$
T_{stg}	Storage temperature	-55		150	$^{\circ}\mathbb{C}$

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

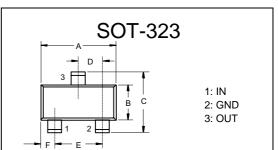
Electrical Characteristics @ 25°€

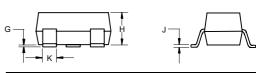
Symbol	Parameter	Min	Тур	Max	Unit
$V_{I(off)}$	Input voltage (V _{CC} =-5V, I _O =-100 μ A)			-0.5	V
$V_{I(on)}$	(V _O =-0.2V, I _O =-5mA)	-3.0			V
$V_{O(on)}$	Output voltage (I _O /I _I =-10mA/-0.5mA			-0.3	V
l _l	Input current (V _I =-5V)			-0.36	mA
$I_{O(off)}$	Output current (V _{CC} =-50V, V _I =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⊤	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

● Equivalent circuit

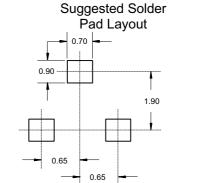


PNP Digital Transistors





DIMENSIONS						
	INC	HES	MM			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.071	.087	1.80	2.20		
В	.045	.053	1.15	1.35		
С	.079	.087	2.00	2.20		
D	.026 Nominal		0.65Nominal			
E	.047	.055	1.20	1.40		
F	.012	.016	.30	.40		
G	.000	.004	.000	.100		
Н	.035	.039	.90	1.00		
J	.004	.010	.100	.250		
K	012	016	30	40		



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Electrical characteristic curves

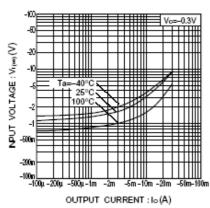


Fig.1 Input voltage vs. output current (ON characteristics)

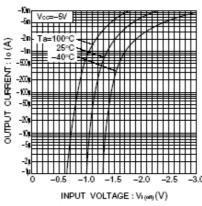
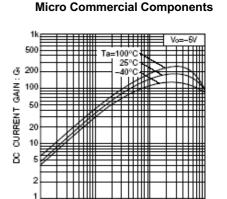


Fig.2 Output current vs. input voltage (OFF characteristics)



OUTPUT CURRENT: Io(A)
Fig.3 DC current gain vs. output current

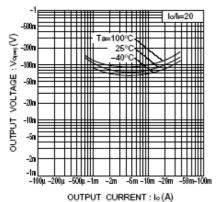


Fig.4 Output voltage vs. output current



Ordering Information

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

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