

**Micro Commercial Components** 

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

## 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°C

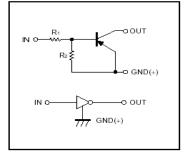
Symbol	Parameter	Min	Тур	Max	Unit
V <sub>cc</sub>	Supply voltage		-50		V
V <sub>IN</sub>	Input voltage	-40		10	V
I <sub>O</sub> I <sub>C(MAX)</sub>	Output current		-30 -100		mA
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T <sub>stg</sub>	Storage temperature	-55		150	°C

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

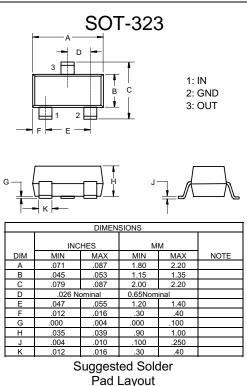
#### Electrical Characteristics @ 25°C

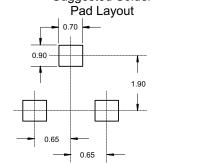
Symbol	Parameter	Min	Тур	Max	Unit
V <sub>I(off)</sub>	Input voltage (V <sub>CC</sub> =-5V, I <sub>O</sub> =-100 µ A)			-0.5	V
V <sub>I(on)</sub>	(V <sub>o</sub> =-0.2V, I <sub>o</sub> =-5mA)	-3.0			V
V <sub>O(on)</sub>	Output voltage (I <sub>0</sub> /I <sub>1</sub> =-10mA/-0.5mA			-0.3	V
li i	Input current (V <sub>I</sub> =-5V)			-0.36	mA
I <sub>O(off)</sub>	Output current (V <sub>CC</sub> =-50V, V <sub>I</sub> =0)			-0.5	μΑ
G	DC current gain (Vo=-5V, Io=-5mA)	56			
R1	Input resistance	15.4	22	28.6	KΩ
R <sub>2</sub> /R <sub>1</sub>	Resistance ratio	0.8	1.0	1.2	
f <sub>T</sub>	Transition frequency (V <sub>CE</sub> =-10V, I <sub>E</sub> =5mA, f=100MHz)		250		MHz

#### Equivalent circuit



# PNP Digital Transistors





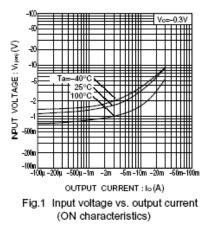
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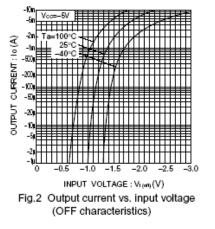
### **Revision: 2**

Downloaded from <u>Elcodis.com</u> electronic components distributor

# DTA124EUA

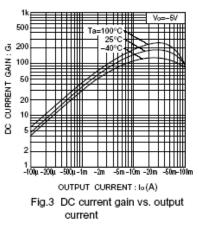
#### Electrical characteristic curves

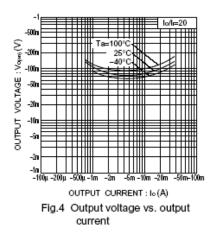






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### **Ordering Information**

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

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