

Micro Commercial Components

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

DTA144EE

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

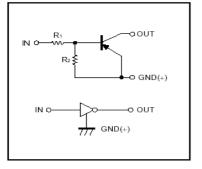
Symbol	Parameter	Min	Тур	Max	Unit
V _{cc}	Supply voltage		-50		V
V _{IN}	Input voltage	-40		10	V
I _O I _{C(MAX)}	Output current		-30 -100		mA
Pd	Power dissipation		150		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

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

Electrical Characteristics @ 25°C

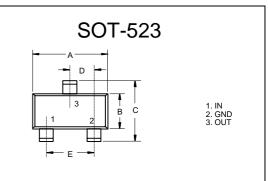
Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =-5V, I _O =-100 µ A)		1	-0.5	V
V _{I(on)}	(V _o =-0.3V, I _o =-2mA)	-3.0			V
V _{O(on)}	Output voltage (I ₀ /I _I =-10mA/-0.5mA			-0.3	V
I,	Input current (V _I =-5V)			-0.18	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μA
G	DC current gain (V ₀ =-5V, I ₀ =-5mA)	68			
R ₁	Input resistance	32.9	47	61.1	KΩ
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

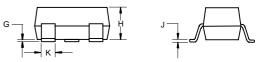
Equivalent circuit

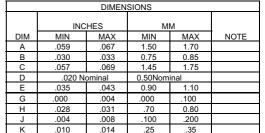


*Marking: 16

PNP Digital Transistors







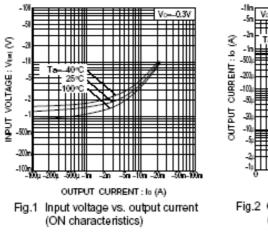
www.mccsemi.com

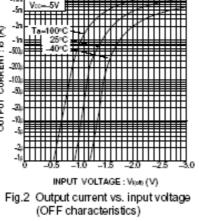
Revision: 3

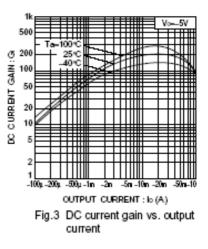
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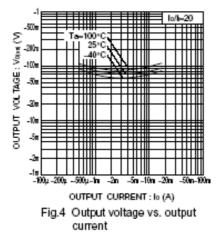


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Ordering Information

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

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