

Micro Commercial Components



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

Features

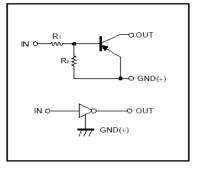
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors
- The bias 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 Halogen free available upon request by adding suffix "-HF"
- 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

Electrical Characteristics @ 25°C

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 =-0.3V, I _o =-2mA)	-3.0			V
V _{O(on)}	Output voltage (I ₀ /I _I =-10mA/-0.5mA			-0.3	V
l,	Input current (V _I =-5V)			-0.18	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μ Α
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 _T	Transition frequency (V _{CE} =-10V, I _E =5mA, f=100MHz)		250		MHz

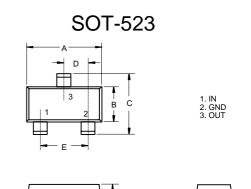
Equivalent circuit

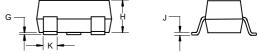


*Marking: 16

PNP Digital Transistors

DTA144EE





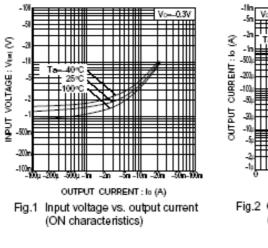
DIMENSIONS						
	INC	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE	
А	.059	.067	1.50	1.70		
В	.030	.033	0.75	0.85		
С	.057	.069	1.45	1.75		
D	.020 No	.020 Nominal		0.50Nominal		
Е	.035	.043	0.90	1.10		
G	.000	.004	.000	.100		
Н	.028	.031	.70	0.80		
J	.004	.008	.100	.200		
К	.010	.014	.25	.35		

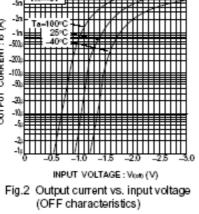
www.mccsemi.com

DTA144EE

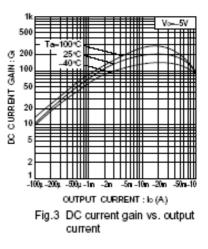


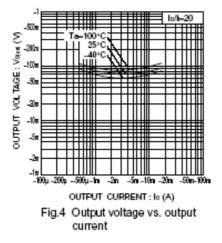
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_5V





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Ordering Information :

Device	Packing
Part Number-TP	Tape&Reel 3Kpcs/Reel

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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