

Micro Commercial Components

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

DTA114ECA

Features

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

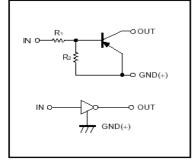
Absolute maximum ratings @ 25°C

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		-50 -100		mA
Pd	Power dissipation		200		mW
Tj	Junction temperature		150		°C
T _{stg}	Storage temperature	-55		150	°C

Electrical Characteristics @ 25°C

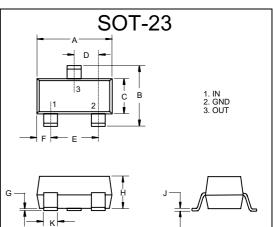
Symbol	Parameter	Min	Тур	Max	Unit
V _{I(off)}	Input voltage (V _{CC} =-5V, I _O =-100 µ A)			-0.5	V
V _{I(on)}	(V _o =-0.3V, I _o =-10mA)	-3.0			V
V _{O(on)}	Output voltage (I ₀ /I _I =-10mA/-0.5mA			-0.3	V
l _i	Input current (V _I =-5V) -			-0.88	mA
I _{O(off)}	Output current (V _{CC} =-50V, V _I =0)			-0.5	μA
G	DC current gain (Vo=-5V, Io=-5mA)	30			
R ₁	Input resistance	7.0	10	13	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

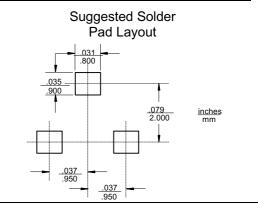


MARKING: 14

PNP Digital Transistors



DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.110	.120	2.80	3.04	
В	.083	.098	2.10	2.64	
С	.047	.055	1.20	1.40	
D	.035	.041	.89	1.03	
E	.070	.081	1.78	2.05	
F	.018	.024	.45	.60	
G	.0005	.0039	.013	.100	
Н	.035	.044	.89	1.12	
J	.003	.007	.085	.180	
K	.015	.020	.37	.51	



www.mccsemi.com

Revision: 2

1 of 2



Ordering Information

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

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