

Micro Commercial Components

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

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 (see equivalent circuit)
- 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

Parameter	Symbol	Value	Unit		
Collector-Base Voltage	V _{CBO}	-50	V		
Collector-Emitter Voltage	V _{CEO}	-50	V		
Emitter-Base voltage	V _{EBO}	-5	V		
Collector Current-Continuous	Ι _c	-100	mA		
Collector Dissipation	Pc	150	mW		
Junction Temperature Range	TJ	-55~150	°C		
Storage Temperature Range	T _{STG}	-55~150	°C		

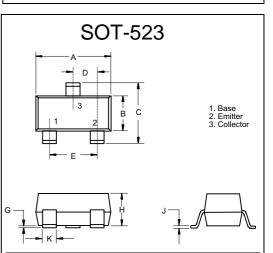
Electrical Characteristics

Sym	Parameter	Min	Тур	Max	Unit
V _{(BR)CBO}	Collector-Base Breakdown Voltage $(I_c=-50uA, I_E=0)$	-50			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage $(I_c=-1mA, I_B=0)$	-50			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =-50uA, I _C =0)	-5			V
I _{CBO}	Collector Cut-off Current (V _{CB} =-50V, I _E =0)			-0.5	uA
I _{EBO}	Emitter Cut-off Current (V _{EB} =-4V, I _C =0)			-0.5	uA
h_{FE}	DC Current Gain (V _{CE} =-5V, I _C =-1mA)	100	250	600	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage (I _C =-10mA, I _B =-1mA)			-0.3	V
R ₁	Input Resistor	7	10	13	KΩ
f_{T}	Transition Frequency (V _{CE} =-10V, I _C =-5mA, f=100MHz)		250		MHz

*Marking: 94

DTA114TE

PNP Digital Transistor



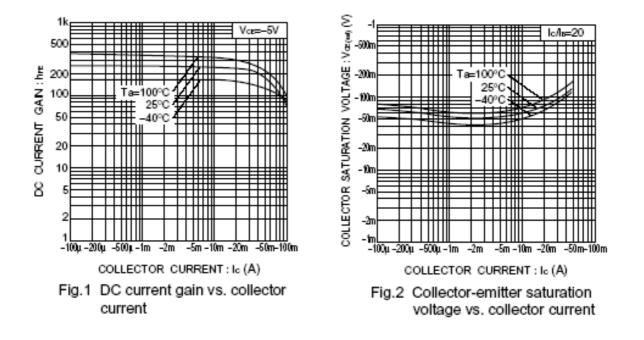
DIMENSIONS					
	INCHES		ММ		
DIM	MIN	MAX	MIN	MAX	NOTE
Α	.059	.067	1.50	1.70	
В	.030	.033	0.75	0.85	
С	.057	.069	1.45	1.75	
D	.020 Nominal		0.50Nominal		
E	.035	.043	0.90	1.10	
G	.000	.004	.000	.100	
Н	.028	.031	.70	0.80	
J	.004	.008	.100	.200	
K	.010	.014	.25	.35	

www.mccsemi.com

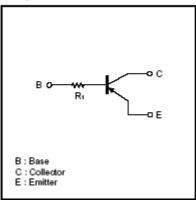
DTA114TE



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Equivalent circuit



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Ordering Information

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

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