

Micro Commercial Components

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

Features

- 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	lc	100	mA			
Collector Dissipation	Pc	150	mW			
Junction Temperature	TJ	150	°C			
Storage Temperature Range	T _{STG}	-55~150	°C			

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

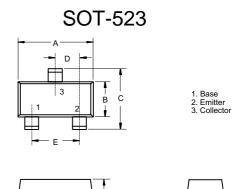
Electrical Characteristics

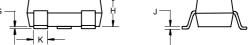
Sym	Parameter	Min	Тур	Max	Unit
V _{(BR)CBO}	Collector-Base Breakdown Voltage (I _c =50uA, I _E =0)	50			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage $(I_C=1mA, I_B=0)$	50			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage (I _E =50uA, I _C =0)	5			V
I _{CBO}	Collector Cut-off Current (V _{CB} =50V, 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	300	600	
V _{CE(sat)}	Collector-Emitter Saturation Voltage $(I_c=10mA, I_B=1mA)$			0.3	V
R ₁	Input resistance	32.9	47	61.1	KΩ
f⊤	Transition Frequency (V_{CE} =10V, I_{C} =-5mA, f=100MHz)		250		MHz

*Marking: 06

DTC144TE

NPN Digital Transistor





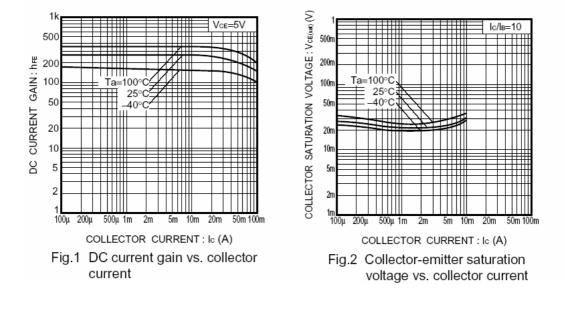
DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.059	.067	1.50	1.70		
В	.030	.033	0.75	0.85		
С	.057	.069	1.45	1.75		
D	.020 N	ominal	0.50Nom	inal		
E	.035	.043	0.90	1.10		
G	.000	.004	.000	.100		
Н	.028	.031	.70	0.80		
J	.004	.008	.100	.200		
ĸ	010	014	25	35		

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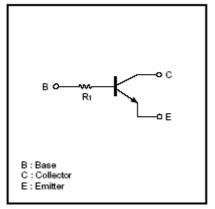
DTC144TE



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Equivalent circuit



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Ordering Information

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

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