

Micro Commercial Components

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

Features

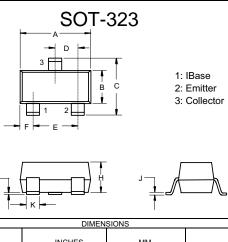
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent circuit)
- The bias resistors consist of thin-film resistors with complete isolation to allow negative biasing of the input. They also have the advantage of almost completely 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	Ι _c	100	mA				
Collector Dissipation	Pc	200	mW				
Junction Temperature	TJ	150	150 °C				
Storage Temperature Range	T _{STG}	-55~150	°C				

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

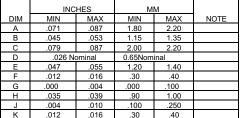
Electrical Characteristics

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 _T	Transition Frequency (V _{CE} =10V, I _C =-5mA, f=100MHz)		250		MHz

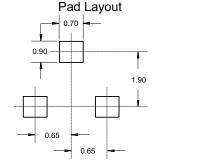


DTC144TUA

NPN Digital Transistor



Suggested Solder



www.mccsemi.com

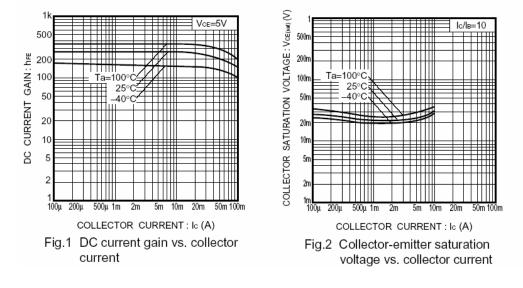
Revision: 2

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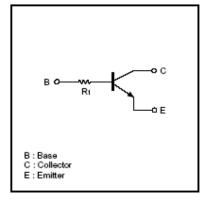
DTC144TUA



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Equivalent circuit



www.mccsemi.com



Ordering Information

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

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