

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 (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	200	mW
Junction Temperature	TJ	150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

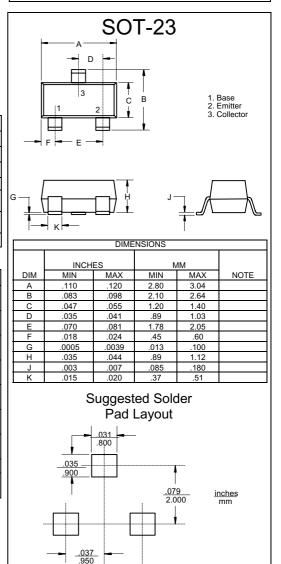
Electrical Characteristics

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	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



NPN Digital Transistor

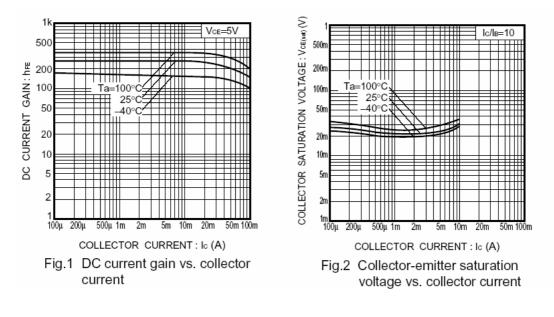


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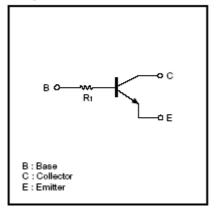
www.mccsemi.com

DTC144TCA





Equivalent circuit



www.mccsemi.com



Ordering Information :

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

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