

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

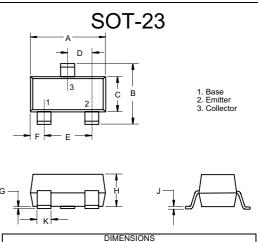
Parameter	Symbol	Value	Unit			
Collector-Base Voltage	V _{CBO}	-50	V			
Collector-Emitter Voltage	V _{CEO}	-50	V			
Emitter-Base voltage	V _{EBO}	-5	V			
Collector Current-Continuous	I _C	-100	mA			
Collector Dissipation	Pc	200	mW			
Junction Temperature Range	TJ	-55~150	°C			
Storage Temperature Range	T _{STG}	-55~150	°C			

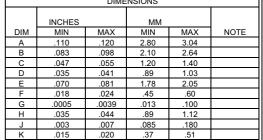
Electrical Characteristics

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 _{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

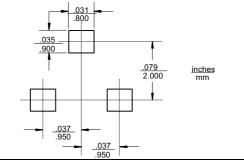
DTA114TCA

PNP Digital Transistor





Suggested Solder Pad Layout

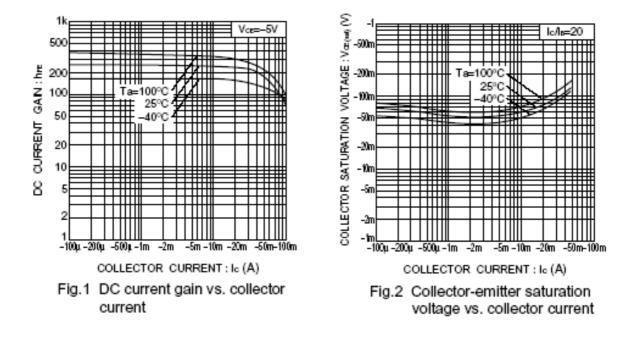


www.mccsemi.com

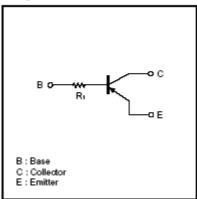
DTA114TCA



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Equivalent circuit



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Ordering Information

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

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