imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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Micro Commercial Components

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

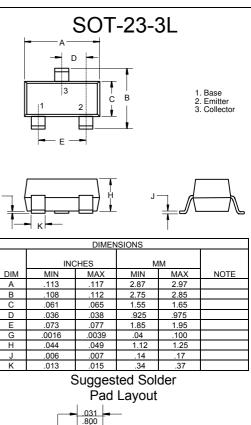
Features

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

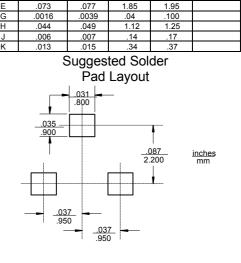
DTC114TKA

NPN Digital Transistor





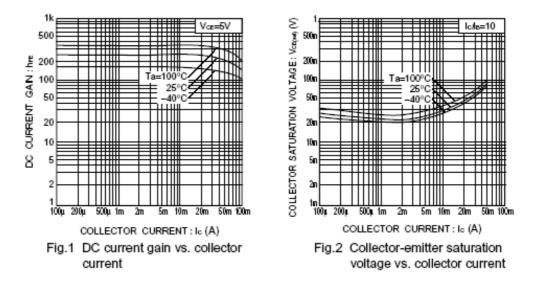
Sym	Parameter	Min	Тур	Max	Unit
V _{(BR)CBO}	Collector-Base Breakdown Voltage $(I_c=50uA, I_E=0)$	50			V
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage $(I_C=1mA, I_B=0)$	50			V
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I _E =50uA, I _C =0)	5			V
I _{CBO}	Collector Cut-off Current $(V_{CB}=50V, I_{E}=0)$			0.5	uA
I _{EBO}	Emitter Cut-off Current (V _{EB} =4V, I _C =0)			0.5	uA
\mathbf{h}_{FE}	DC Current Gain (V _{CE} =5V, I _C =1mA)	100	300	600	
$V_{\text{CE(sat)}}$	Collector-Emitter Saturation Voltage $(I_c=10mA, I_B=1mA)$			0.3	V
R1	Input Resistor	7	10	13	KΩ
f _T	Transition Frequency (V _{CE} =10V, I _C =-5mA, f=100MHz)		250		MHz



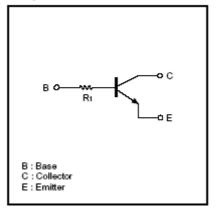
www.mccsemi.com

DTC114TKA





Equivalent circuit



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