

Excellent Integrated System Limited

Stocking Distributor

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Micro Commercial Components (MCC) DTC114TUA-TP

For any questions, you can email us directly: <u>sales@integrated-circuit.com</u>



Distributor of Micro Commercial Components (MCC) : Excellent Integrated System Limite Datasheet of DTC114TUA-TP - TRANS PREBIAS NPN 200MW SOT323 Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com



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
- Halogen free available upon request by adding suffix "-HF"

Absolute Maximum Ratings

Parameter	Symbol	Symbol Value	
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	TJ	150	°C
Storage Temperature Range	T _{STG}	-55~150	°C

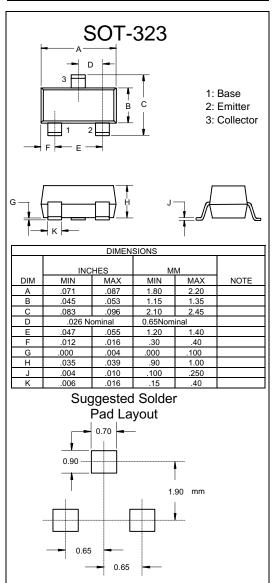
Electrical Characteristics

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	
$V_{\text{CE}(\text{sat})}$	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

*Marking: 04



NPN Digital Transistor



- www.mccsemi.com

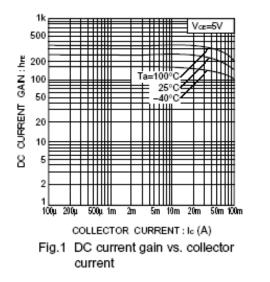


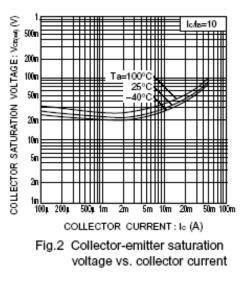
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DTC114TUA

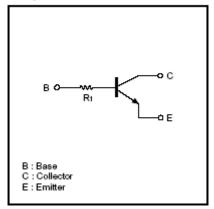


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Equivalent circuit



www.mccsemi.com





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Ordering Information :

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

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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