

Micro Commercial Components



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

Features

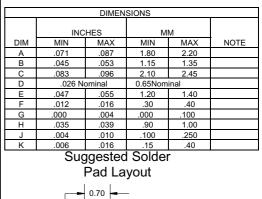
- Lead Free Finish/RoHS Compliant ("P" Suffix designates RoHS Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisure Sensitivity Level 1
- Built-in bias resistors enable the configuration of an inverter circuit without connecting external input resistors (see equivalent 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

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

2: Emitter 3: Collector

1: Base

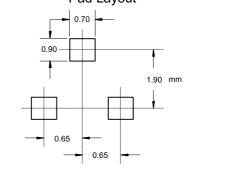


DTA114TUA

PNP Digital Transistor

SOT-323

→ D 3 — D



Electrical Characteristics

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

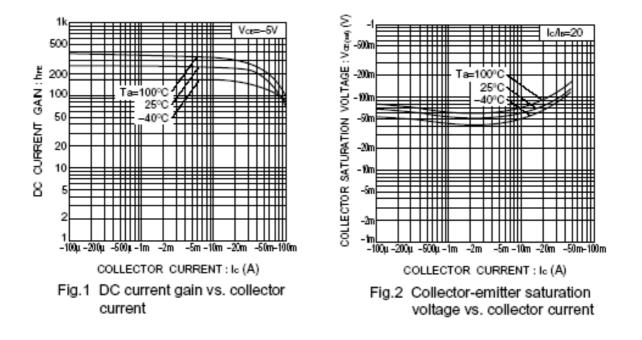
*Marking: 94

www.mccsemi.com

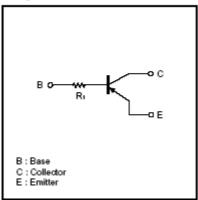
DTA114TUA



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Equivalent circuit



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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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