

**Micro Commercial Components** 



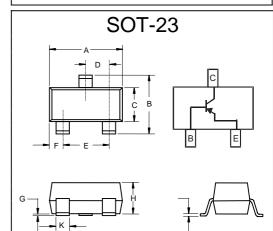
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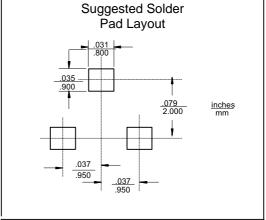
## MMBTA94

## **PNP Silicon High**

# **Voltage Transistor**



DIMENSIONS						
	INCHES		ММ			
DIM	MIN	MAX	MIN	MAX	NOTE	
Α	.110	.120	2.80	3.04		
В	.083	.098	2.10	2.64		
С	.047	.055	1.20	1.40		
D	.035	.041	.89	1.03		
E	.070	.081	1.78	2.05		
F	.018	.024	.45	.60		
G	.0005	.0039	.013	.100		
Н	.035	.044	.89	1.12		
J	.003	.007	.085	.180		
K	.015	.020	.37	.51		



## **Features**

- Surface Mount SOT-23 Package
- Capable of 350mWatts of Power Dissipation
- 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
- Marking: 4D

## Electrical Characteristics @ 25°C Unless Otherwise Specified

Symbol	Parameter	Min	Max	Units		
OFF CHARA	OFF CHARACTERISTICS					
$V_{(BR)CEO}$	Collector-Emitter Breakdown Voltage* (I <sub>C</sub> =-1.0mAdc, I <sub>B</sub> =0)	-400		Vdc		
V <sub>(BR)CBO</sub>	Collector-Base Breakdown Voltage (I <sub>C</sub> =-100µAdc, I <sub>E</sub> =0)	-400		Vdc		
$V_{(BR)EBO}$	Emitter-Base Breakdown Voltage (I <sub>E</sub> =-100µAdc, I <sub>C</sub> =0)	-5		Vdc		
Ic	Collector Current-Continuous	-100		mAdc		
I <sub>CBO</sub>	Collector Cutoff Current (V <sub>CB</sub> =-400Vdc, I <sub>E</sub> =0)		-100	nAdc		
I <sub>EBO</sub>	Emitter Cutoff Current (V <sub>EB</sub> =-4Vdc, I <sub>C</sub> =0)		-100	nAdc		
TJ	Junction Temperature	150	)	°C		
T <sub>stg</sub>	Storage Temperature	-55 to +150		°C		

## **ON CHARACTERISTICS**

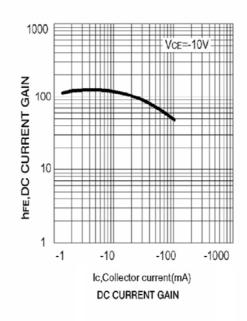
h <sub>FE</sub>	DC Current Gain*	70 80 40 40	300	
V <sub>CE(sat)</sub>	Collector-Emitter Saturation Voltage (I <sub>C</sub> =-10mAdc, I <sub>B</sub> =-1.0mAdc) (I <sub>C</sub> =-50mAdc, I <sub>B</sub> =-5mAdc)		-0.2 -0.3	Vdc
V <sub>BE(sat)</sub>	Base-Emitter Saturation Voltage (I <sub>C</sub> =-50mAdc,I <sub>B</sub> =-1.0mAdc)		-0.75	Vdc

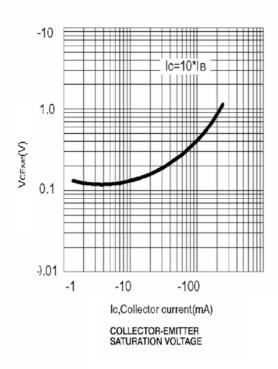
## **SMALL-SIGNAL CHARACTERISTICS**

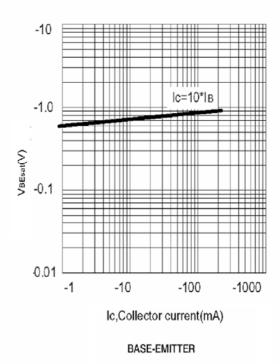
_					
Ī	f <sub>⊤</sub> Current Gain-Bandwidth Product				
I		$(I_C=-10mAdc, V_{CE}=-20Vdc, )$	50		MHz



## **Typical Characteristics**









#### **Micro Commercial Components**

## **Ordering Information:**

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

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