



# FUKUCOM COMPANY LTD.

## 福 靈 有 限 公 司

FLAT P, 3/F., EVEREST INDUSTRIAL CENTRE, 396 KWUN TONG ROAD,  
KWUN TONG, KOWLOON, HONG KONG.

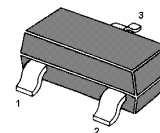
TEL: 852-2790 0314 FAX: 852-2790 0206

### MMBTA94

#### PNP Silicon Epitaxial Planar Transistor

for high voltage switching and amplifier applications.

The transistor is subdivided into one group according to its DC current gain.



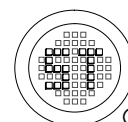
1. Base 2. Emitter 3. Collector  
SOT-23 Plastic Package

#### Absolute Maximum Ratings ( $T_a = 25^\circ\text{C}$ )

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	400	V
Collector Emitter Voltage	$-V_{CEO}$	400	V
Emitter Base Voltage	$-V_{EBO}$	6	V
Collector Current	$-I_C$	300	mA
Power Dissipation	$P_{tot}$	200	mW
Junction Temperature	$T_j$	150	$^\circ\text{C}$
Storage Temperature Range	$T_{stg}$	- 55 to + 150	$^\circ\text{C}$

#### Characteristics at $T_a = 25^\circ\text{C}$

Parameter	Symbol	Min.	Max.	Unit
DC Current Gain				
at $-V_{CE} = 10\text{ V}$ , $-I_C = 1\text{ mA}$	$h_{FE}$	100	-	-
at $-V_{CE} = 10\text{ V}$ , $-I_C = 10\text{ mA}$	$h_{FE}$	40	-	-
at $-V_{CE} = 10\text{ V}$ , $-I_C = 30\text{ mA}$	$h_{FE}$	25	-	-
Collector Base Cutoff Current				
at $-V_{CB} = 300\text{ V}$	$-I_{CBO}$	-	0.1	$\mu\text{A}$
Collector Emitter Cutoff Current				
at $-V_{CE} = 400\text{ V}$	$-I_{CES}$	-	1	$\mu\text{A}$
Emitter Base Cutoff Current				
at $-V_{EB} = 4\text{ V}$	$-I_{EBO}$	-	0.1	$\mu\text{A}$
Collector Base Breakdown Voltage				
at $-I_C = 100\text{ }\mu\text{A}$	$-V_{(BR)CBO}$	400	-	V
Collector Emitter Breakdown Voltage				
at $-I_C = 1\text{ mA}$	$-V_{(BR)CEO}$	400	-	V
Collector Emitter Breakdown Voltage				
at $-I_C = 100\text{ }\mu\text{A}$	$-V_{(BR)CES}$	400	-	V
Emitter Base Breakdown Voltage				
at $-I_E = 10\text{ }\mu\text{A}$	$-V_{(BR)EBO}$	6	-	V
Collector Emitter Saturation Voltage				
at $-I_C = 10\text{ mA}$ , $-I_B = 1\text{ mA}$	$-V_{CE(sat)}$	-	0.5	V
at $-I_C = 50\text{ mA}$ , $-I_B = 5\text{ mA}$		-	0.75	
Base Emitter Saturation Voltage				
at $-I_C = 10\text{ mA}$ , $-I_B = 1\text{ mA}$	$-V_{BE(sat)}$	-	0.75	V
Collector Output Capacitance				
at $-V_{CB} = 20\text{ V}$ , $f = 1\text{ MHz}$	$C_{ob}$	-	7	pF





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