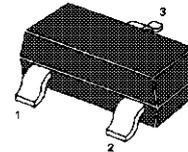


MMBTA94

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. As complementary type the NPN transistor MMBTA44 is recommended.

On special request, these transistors can be manufactured in different pin configurations.

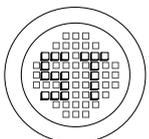


1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

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

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



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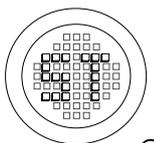
РАДИОТЕХ

Тел.: (495) 795-0805
Факс: (495) 234-1603
Эл. почта: info@rct.ru
Веб: www.rct.ru

MMBTA94

Characteristics at $T_{amb}=25\text{ }^{\circ}\text{C}$

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



SEMTECH ELECTRONICS LTD.

(Subsidiary of Semtech International Holdings Limited, a company listed on the Hong Kong Stock Exchange, Stock Code: 724)



ISO/TS 16949 : 2002
Certificate No. 05103



ISO 14001:2004
Certificate No. 7116



ISO 9001:2000
Certificate No. 0506098

Dated : 20/10/2005