

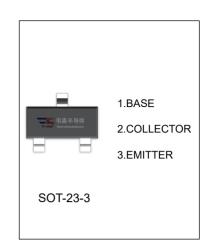
MMBTA94 TRANSISTOR

FEATURES

High Breakdown Voltage

MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Symbol	Parameter	Value	Unit
V _{CBO}	Collector-Base Voltage	-400	V
V _{CEO}	Collector-Emitter Voltage	-400	V
V _{EBO}	Emitter-Base Voltage	-5	V
Ic	Collector Current -Continuous	-200	mA
I _{CM}	Collector Current -Pulsed	-300	mA
Pc	Collector Power Dissipation	350	mW
R _{OJA}	Thermal Resistance From Junction To Ambient	357	°C/W
T_J, T_stg	Operation Junction and Storage Temperature Range	<i>-</i> 55∼+150	℃



ELECTRICAL CHARACTERISTICS (T_a =25 $^{\circ}$ C unless otherwise specified)

Symbol	Test conditions	Min	Тур	Max	Unit
V _{(BR)CBO}	I _C =-100μA, I _E =0	-400			V
V _{(BR)CEO}	I _C =-1mA, I _B =0	-400			V
V _{(BR)EBO}	I _E =-100μA, I _C =0	-5			V
I _{CBO}	V _{CB} =-400V, I _E =0			-0.1	μA
I _{CEO}	V _{CE} =-400V, I _B =0			-5	μA
I _{EBO}	V _{EB} =-4V, I _C =0			-0.1	μA
h _{FE(1)}	V _{CE} =-10V, I _C =-10mA	80		300	
h _{FE(2)}	V _{CE} =-10V, I _C =-1mA	70			
h _{FE(3)}	V _{CE} =-10V, I _C =-100mA	40			
h _{FE(4)}	V _{CE} =-10V, I _C =-50mA	40			
V _{CE(sat)1}	I _C =-10mA, I _B =-1mA			-0.2	V
V _{CE(sat)2}	I _C =-50mA, I _B =-5mA			-0.3	V
V _{BE(sat)}	I _C =-10mA, I _B =-1mA			-0.75	V
f _T	V _{CE} =-20V,I _C =-10mA,	50			MHz
	V(BR)CBO V(BR)CEO V(BR)EBO ICBO ICEO IEBO hFE(1) hFE(2) hFE(3) hFE(4) VCE(sat)1 VCE(sat)2 VBE(sat)	V _{(BR)CBO} I _C =-100μA, I _E =0 V _{(BR)CEO} I _C =-1mA, I _B =0 V _{(BR)EBO} I _E =-100μA, I _C =0 I _{CBO} V _{CB} =-400V, I _E =0 I _{CEO} V _{CE} =-400V, I _B =0 I _{EBO} V _{CE} =-10V, I _C =-10mA h _{FE(1)} V _{CE} =-10V, I _C =-1mA h _{FE(3)} V _{CE} =-10V, I _C =-100mA h _{FE(4)} V _{CE} =-10V, I _C =-50mA V _{CE} (sat)1 I _C =-50mA, I _B =-1mA V _{CE} (sat)2 I _C =-10mA, I _B =-1mA V _{CE} =-20V, I _C =-10mA.	V(BR)CBO IC=-100μA, IE=0 -400 V(BR)CEO IC=-1mA, IB=0 -400 V(BR)EBO IE=-100μA, IC=0 -5 ICBO VCB=-400V, IE=0 -5 ICEO VCE=-400V, IB=0 -6 IEBO VEB=-4V, IC=0 -7 MFE(1) VCE=-10V, IC=-10mA 80 MFE(2) VCE=-10V, IC=-10mA 70 MFE(3) VCE=-10V, IC=-100mA 40 MFE(4) VCE=-10V, IC=-50mA 40 VCE(sat)1 IC=-10mA, IB=-1mA VCE(sat)2 IC=-50mA, IB=-5mA VBE(sat) IC=-10mA, IB=-1mA VCE=-20V, IC=-10mA, 50	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$



