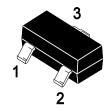


Features

- For high voltage switching and amplifier applications
- The transistor is subdivided into one group according to its DC current gain.

SOT-23



1.Base 2.Emitter 3.Collector

Absolute Maximum Ratings (Ta=25℃)

Parameter	Symbol	Value	Units
Collector Base Voltage	-V _{CBO}	400	V
Collector Emitter Voltage	-V _{CEO}	400	V
Emitter Base Voltage	-V _{EBO}	6	V
Collector Current	-lc	300	mA
Power Dissipation	P _D	350	mW
Junction and Storage Temperature Range	T_{J} , T_{STG}	-55 to 150	°C

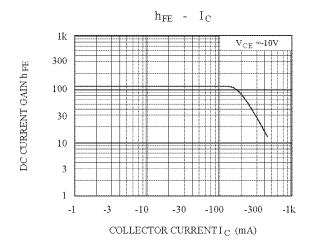
Electrical Characteristics(Ta=25℃)

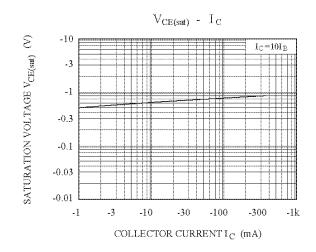
Parameter	Symbol	Min.	Max.	Units
DC Current Gain at $-V_{CE} = 10 \text{ V}$, $-I_{C} = 1 \text{ mA}$	h _{FE}	100	-	-
at $-V_{CE}$ = 10 V, $-I_{C}$ = 10 mA at $-V_{CE}$ = 10 V, $-I_{C}$ = 30 mA	h _{FE} h _{FE}	40 25	-	-
Collector Base Cutoff Current at -V _{CB} = 300 V	-I _{CBO}	-	0.1	μA
Collector Emitter Cutoff Current at -V _{CE} = 400 V	-I _{CES}	-	1	μA
Emitter Base Cutoff Current at -V _{EB} = 4 V	-I _{EBO}	-	0.1	μΑ
Collector Base Breakdown Voltage at -I _C = 100 μA	-V _{(BR)CBO}	400	-	V
Collector Emitter Breakdown Voltage at -I _C = 1 mA	-V _{(BR)CEO}	400	-	V
Collector Emitter Breakdown Voltage at -I _C = 100 μA	-V _{(BR)CES}	400	-	V
Emitter Base Breakdown Voltage at -I _E = 10 μA	-V _{(BR)EBO}	6	-	V
Collector Emitter Saturation Voltage at $-I_C = 10$ mA, $-I_B = 1$ mA at $-I_C = 50$ mA, $-I_B = 5$ mA	-V _{CE(sat)}	- -	0.5 0.75	V
Base Emitter Saturation Voltage at -I _C = 10 mA, -I _B = 1 mA	-V _{BE(sat)}	-	0.75	V
Collector Output Capacitance at -V _{CB} = 20 V, f= 1 MHz	Сов	-	7	pF

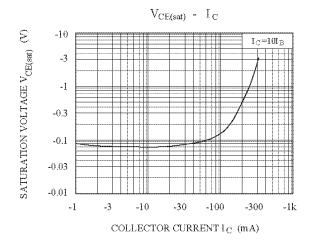
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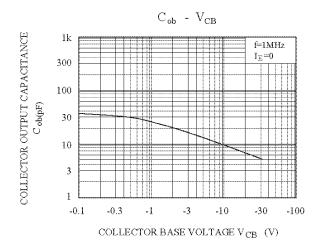


Electrical Characteristics Curves





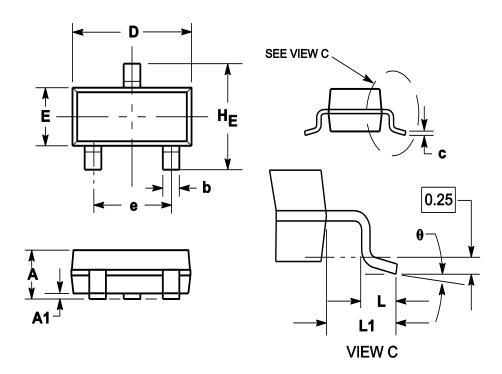




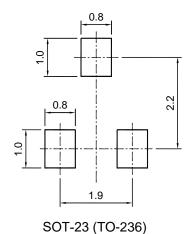


Package Outline

SOT-23



Symbol	Dimensions in millimeter				
	Min.	Тур.	Max.		
Α	0.900	1.025	1.150		
A1	0.000	0.050	0.100		
b	0.300	0.400	0.500		
С	0.080	0.115	0.150		
D	2.800	2.900	3.000		
E	1.200	1.300	1.400		
HE	2.250	2.400	2.550		
е	1.800	1.900	2.000		
L1	0.550REF				
L	0.300		0.500		
θ	00		8º		



Recommended soldering pad

Ordering Information

Device	Package	Shipping
MMBTA94	SOT-23	3000PCS/Reel&Tape

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