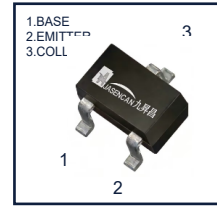
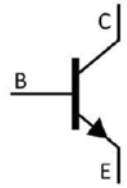


Features

- High Collector-Emitter Voltage
- Complement to MMBTA94



SOT23



Equivalent Circuit

Absolute Maximum Ratings (TA=25°C)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	400	V
V _{CEO}	Collector-Emitter Voltage	400	V
V _{EBO}	Emitter-Base Voltage	6	V
I _C	Collector Current	0.2	A
I _{CM}	Collector Current -Pulsed	0.3	A
P _C	Collector Power Dissipation	350	mW
R _{θJA}	Thermal Resistance From Junction To Ambient	357	°C/W
T _J , T _{stg}	Operation Junction And Storage Temperature Range	-55 ~ +150	°C

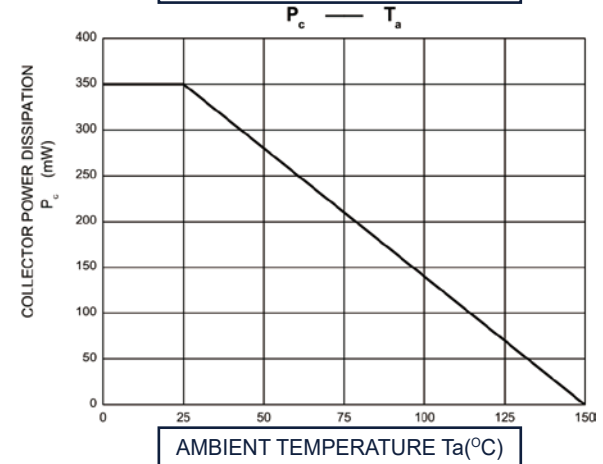
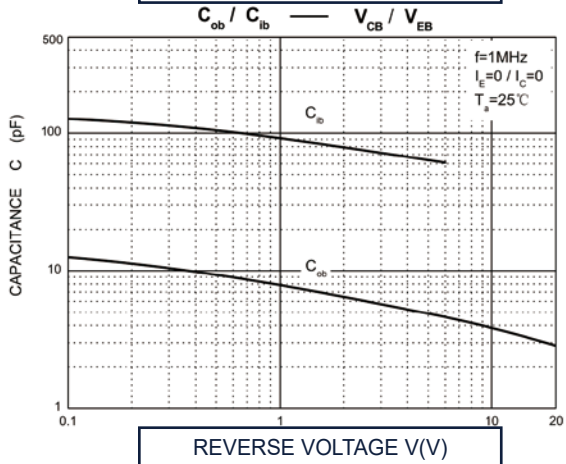
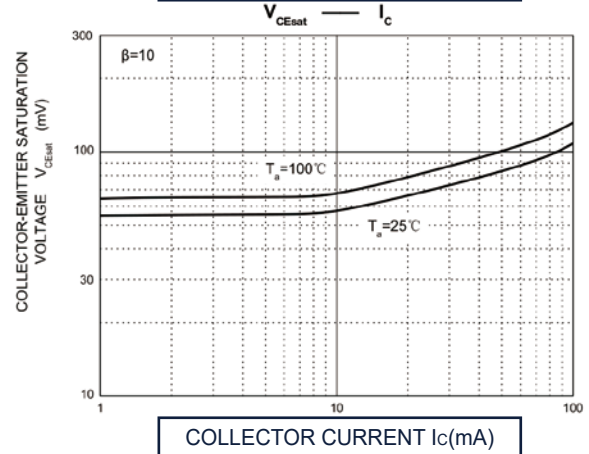
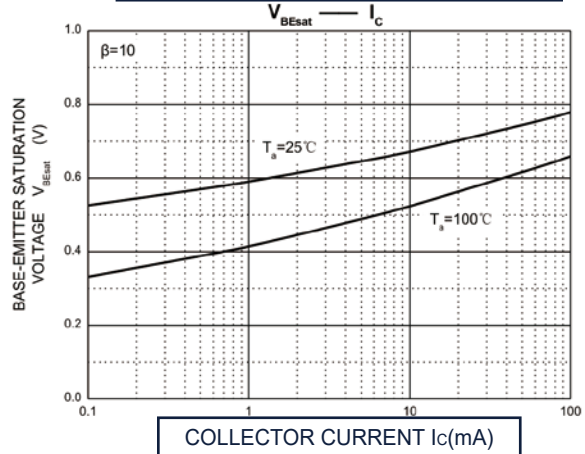
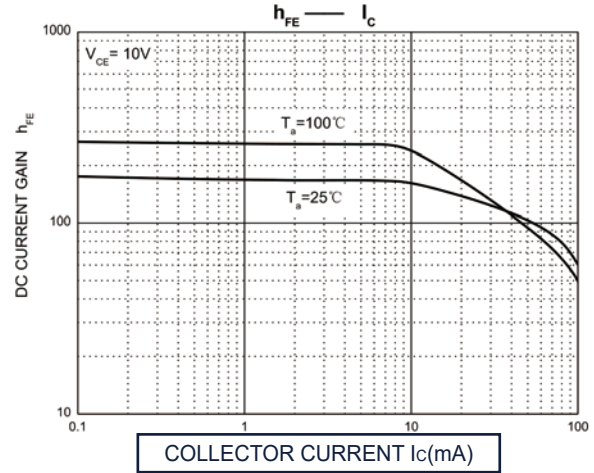
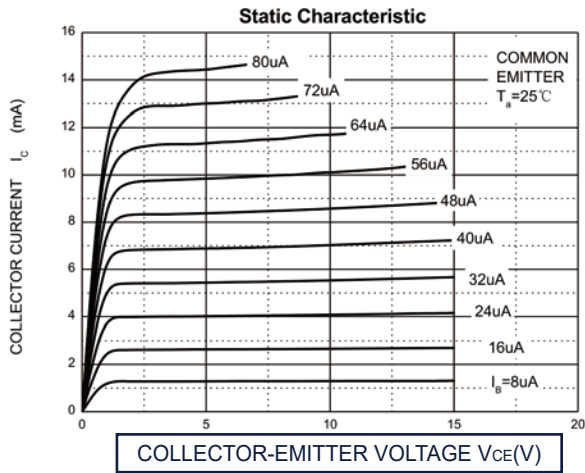
Electrical Characteristics (TA=25°C unless otherwise specified)

Symbol	Parameter	Test conditions	Min	Typ	Max	Unit
V _{(BR)CBO}	Collector-base breakdown voltage	I _C =100μA, I _E =0	400			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =1mA, I _B =0	400			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =10μA, I _C =0	6			V
I _{CBO}	Collector cut-off current	V _{CB} =400V, I _E =0			0.1	μA
I _{EBO}	Emitter cut-off current	V _{EB} =4V, I _C =0			0.1	μA
h _{FE(1)}	DC current gain	V _{CE} =10V, I _C =1mA	40			
h _{FE(2)}		V _{CE} =10V, I _C =10mA	100		200	
h _{FE(3)}		V _{CE} =10V, I _C =50mA	45			
h _{FE(4)}		V _{CE} =10V, I _C =100mA	40			
V _{CE(sat)1}	Collector-emitter saturation voltage	I _C =1mA, I _B =0.1mA			0.4	V
V _{CE(sat)2}		I _C =10mA, I _B =1mA			0.5	V
V _{CE(sat)3}		I _C =50mA, I _B =5mA			0.75	V
V _{BE(sat)2}	Base-emitter saturation voltage	I _C =10mA, I _B =1mA			0.75	V
C _{ob}	Collector output capacitance	V _{CB} =20V, I _E =0, f=1MHz			7	pF
C _{ib}	Emitter input capacitance	V _{EB} =0.5V, I _C =0, f=1MHz			130	pF
f _T	Transition frequency	V _{CE} =20V, I _C =10mA, f=30MHz	50			MHz

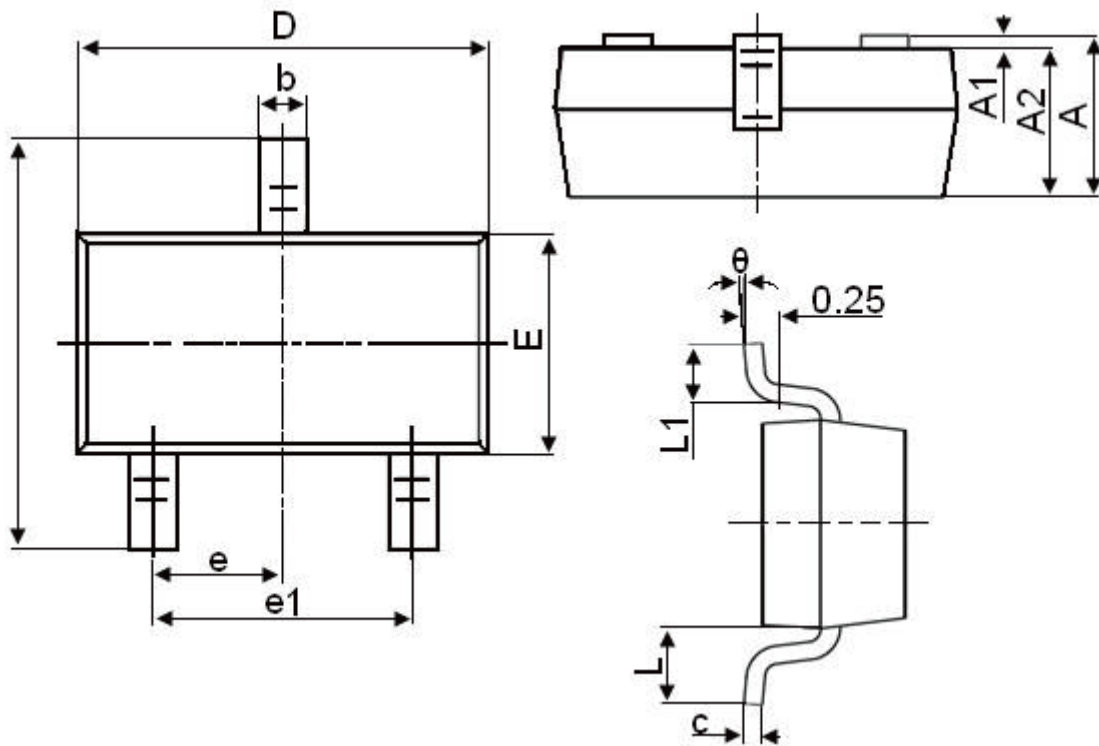
Ordering information

Product ID	Pack	Naming rule	Marking	hFE(1)	Qty(PCS)
MMBTA44	SOT23	<div style="border: 1px solid black; padding: 5px; display: inline-block;">MMBTA44</div> <small>产品名称 product name</small>	3D	100-200	3000

Typical Characteristics



SOT23 Package Outline Dimensions



Symbol	Dimensions in Millimeters	
	mm	
	Min	Max
A	0.900	1.150
A1	0.000	0.100
A2	0.900	1.050
b	0.300	0.500
c	0.080	0.150
D	2.800	3.000
E	1.200	1.400
E1	2.250	2.550
e	0.950TYP	
e1	1.800	2.000
L	0.550REF	
L1	0.300	0.500
θ	0°	8°