

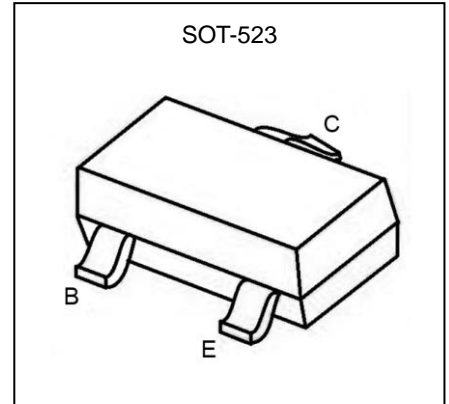


MMBT3906T Transistor(PNP)

Feature

- Epitaxial Planar Die Construction
- Complementary NPN Type Available(MMBT3904)
- Ideal for Medium Power Amplification and Switching

Marking: 3N



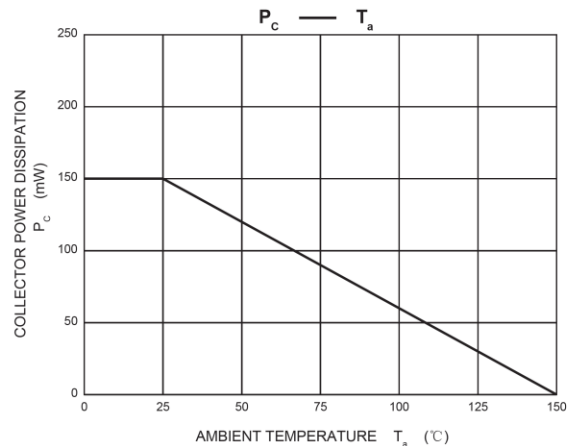
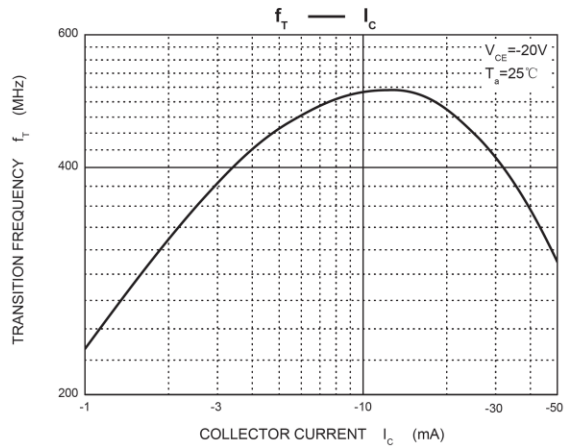
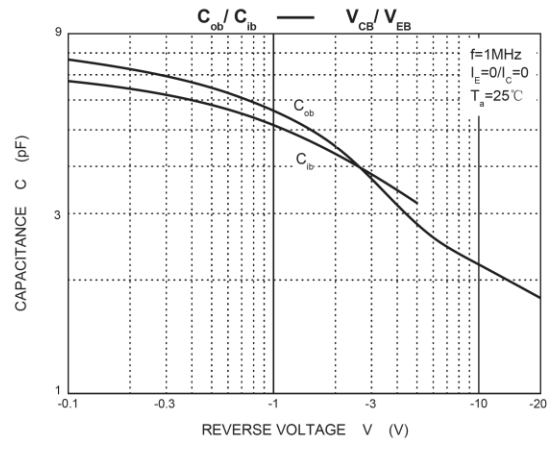
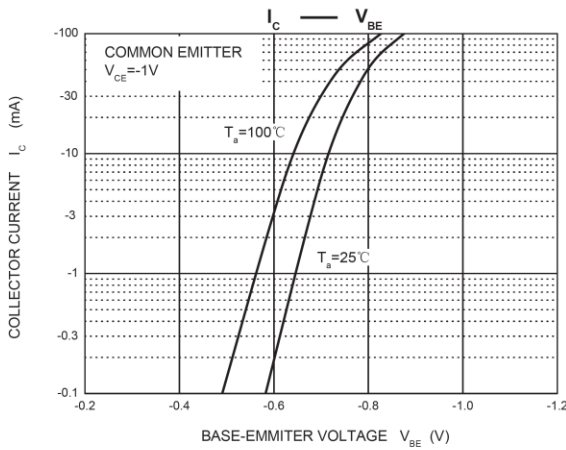
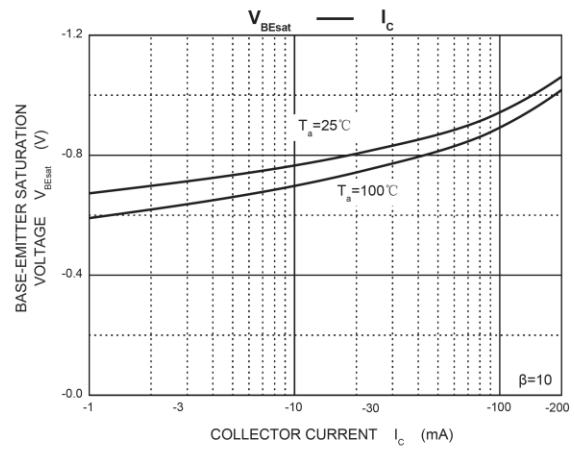
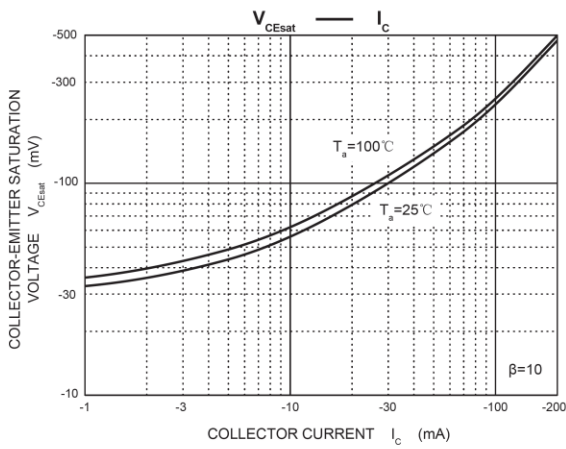
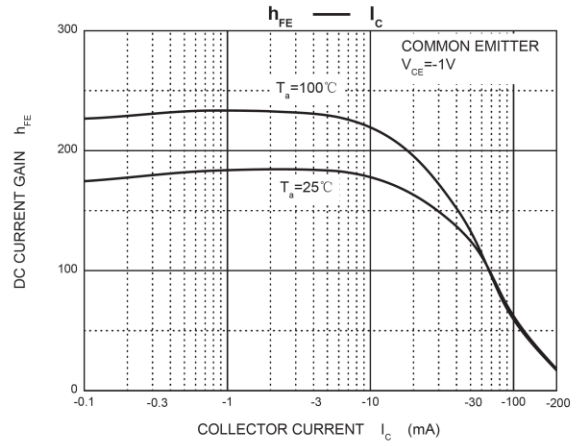
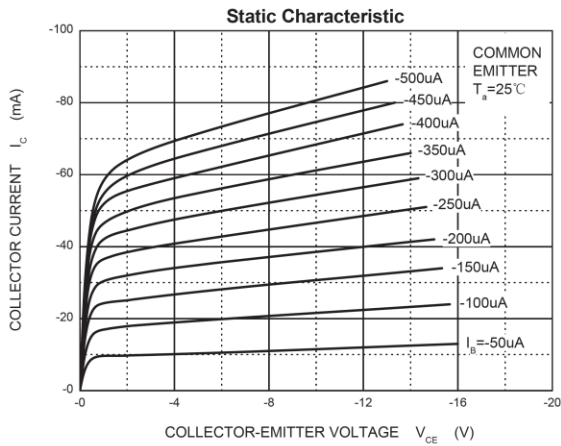
MAXIMUM RATINGS (T_a=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Collector-Base Voltage	V _{CB0}	-40	V
Collector-Emitter Voltage	V _{CEO}	-40	V
Emitter-Base Voltage	V _{EBO}	-5	V
Collector Current -Continuous	I _c	-0.1	A
Power Dissipation	P _d	0.15	W
Junction Temperature	T _J	125	°C
Storage Temperature	T _{STG}	-45~ +150	°C

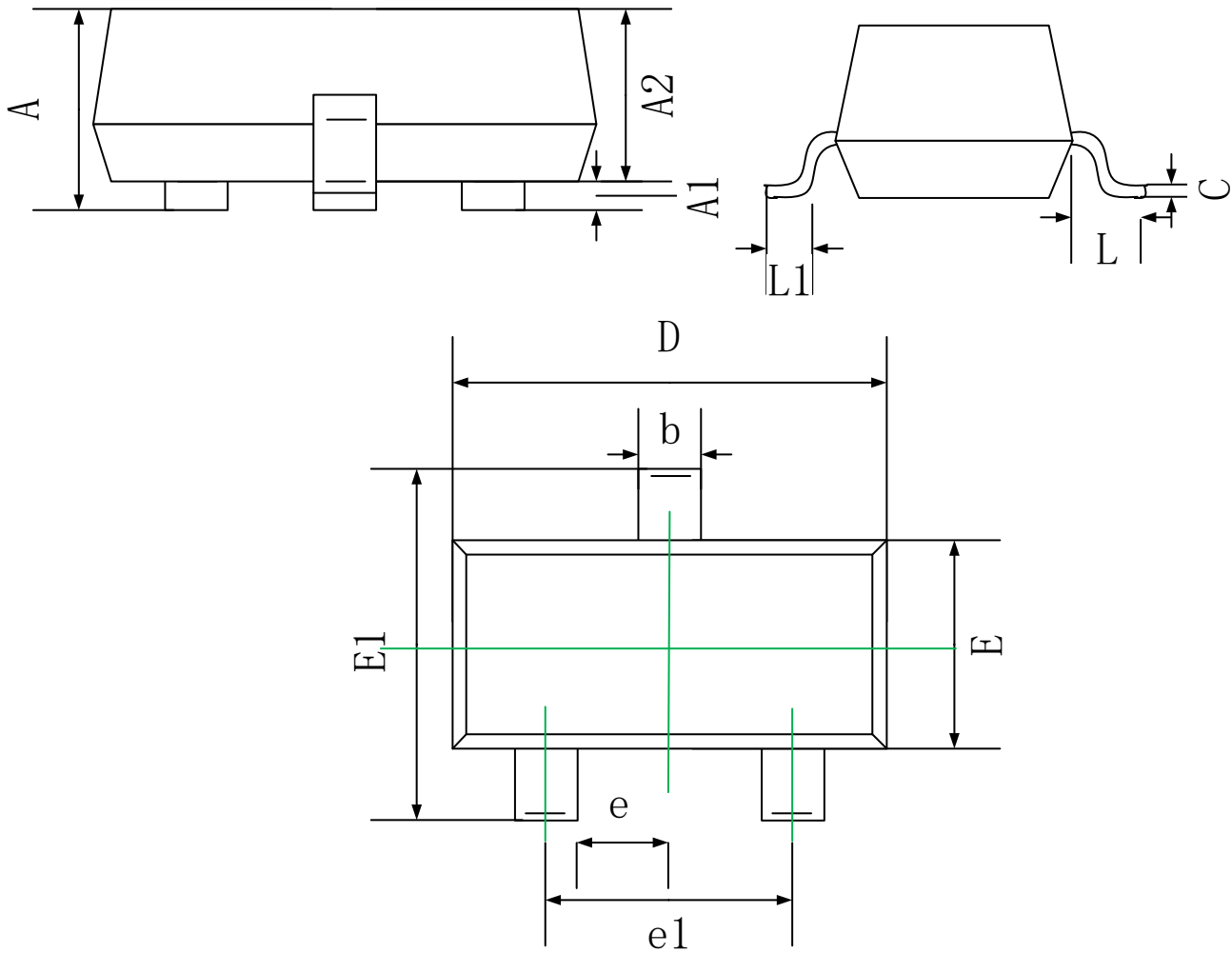
ELECTRICAL CHARACTERISTICS(T_a=25°C unless otherwise noted)

Parameter	Symbol	Test Condition	Min	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _c =-10μA, I _E =0	-40		V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _c =-1mA, I _B =0	-40		V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-10μA, I _c =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} =-40V, I _E =0		-100	nA
Emitter cut-off current	I _{EBO}	V _{CE} =-5V, I _c =0		-100	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30V, V _{EB(OFF)} =-3V		-200	nA
DC current gain	h _{FE}	V _{CE} =-1V, I _c =-0.1mA	60		
		V _{CE} =-1V, I _c =-1mA	80		
		V _{CE} =-1V, I _c =-10mA	100	300	
		V _{CE} =-1V, I _c =-50mA	60		
		V _{CE} =-1V, I _c =-100mA	30		
Collector-emitter saturation voltage	V _{CE(sat)}	I _c =-10mA, I _B = -1mA		-0.25	V
		I _c =-50mA, I _B = -5mA		-0.4	V
Base-emitter saturation voltage	V _{BE(sat)}	I _c =-10mA, I _B = -1mA	-0.65	-0.85	V
		I _c =-50mA, I _B = -5mA		-0.95	V
Transition frequency	f _T	V _{CE} = -20V, I _c =-10mA, f=100MHz	250		MHZ

Typical Characteristics



SOT-523 Package Information



Symbol	Dimensions In Millimeters	
	Min	Max
A	0.700	0.900
A1	0.000	0.100
A2	0.700	0.800
b	0.250	0.350
c	0.100	0.200
D	1.500	1.700
E	0.700	0.900
E1	1.450	1.750
e	0.500 TYP	
e1	0.900	1.100
L	0.550 REF	
θ	0°	8°