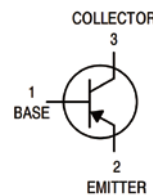


Features

- Complementary to MMBT3904M
- Small Package



SOT-723



Equivalent Circuit

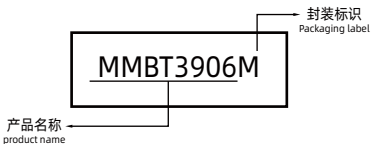
Absolute Maximum Ratings (TA=25°C)

Symbol	Parameter	Value	Unit
V _{CB0}	Collector-Base Voltage	-40	V
V _{CE0}	Collector-Emitter Voltage	-40	V
V _{EB0}	Emitter-Base Voltage	-5	V
I _C	Collector Current	-0.2	A
P _C	Power dissipation	0.1	W
R _{θJA}	Thermal Resistance from Junction to Ambient	1250	°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 =-10μA, I _E =0	-40			V
V _{(BR)CEO}	Collector-emitter breakdown voltage	I _C =-1mA, I _B =0	-40			V
V _{(BR)EBO}	Emitter-base breakdown voltage	I _E =-10μA, I _C =0	-5			V
I _{CBO}	Collector cut-off current	V _{CB} =-40V, I _E =0			-100	nA
I _{CEX}	Collector cut-off current	V _{CE} =-30V, V _{BE(off)} =-3V			-50	nA
I _{EBO}	Emitter-base cutoff current	V _{EB} =-5V, I _C =0			-100	nA
h _{FE(1)}	DC current gain	V _{CE} =-1V, I _C =-10mA	100		300	
h _{FE(2)}		V _{CE} =-1V, I _C =-50mA	60			
h _{FE(3)}		V _{CE} =-2V, I _C =-100mA	30			
V _{CE(sat)1}	Collector-emitter saturation voltage	I _C =-50mA, I _B =-5mA			-0.3	V
V _{BE(sat)2}	Base-emitter saturation voltage	I _C =-50mA, I _B =-5mA			-0.95	V
f _T	Transition frequency	V _{CE} =-20V, I _C =-10mA, f=100MHz	300			MHz
t _d	Delay time	V _{CC} =-3V, V _{BE(off)} =-0.5V I _C =-10mA, I _{B1} =I _{B2} =-1mA			35	ns
t _r	Rise time				35	ns
t _s	Storage time	V _{CC} =-3V, I _C =-10mA I _{B1} =-I _{B2} =-1mA			225	ns
t _f	Fall time				75	ns

Ordering information

Product ID	Pack	Naming rule	Marking	h _{FE(1)}	Qty(PCS)
MMBT3906M	SOT-723		3N	100-300	8000

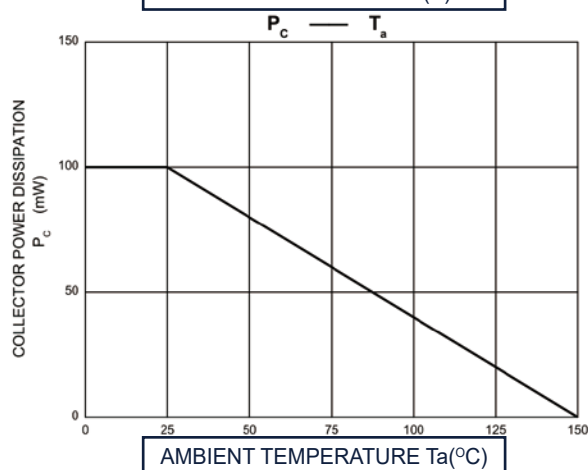
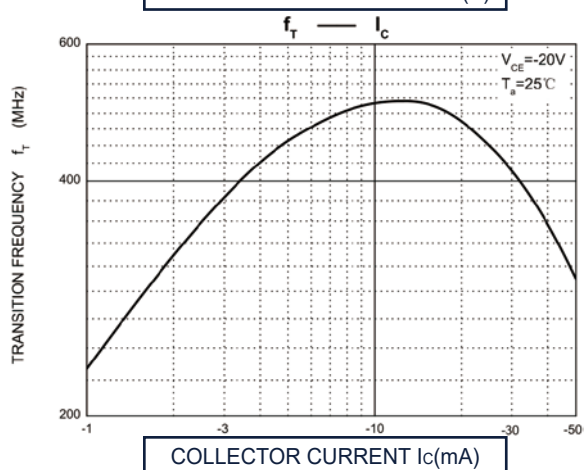
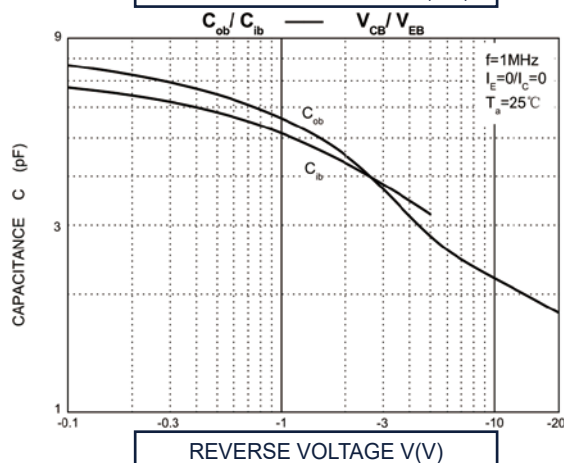
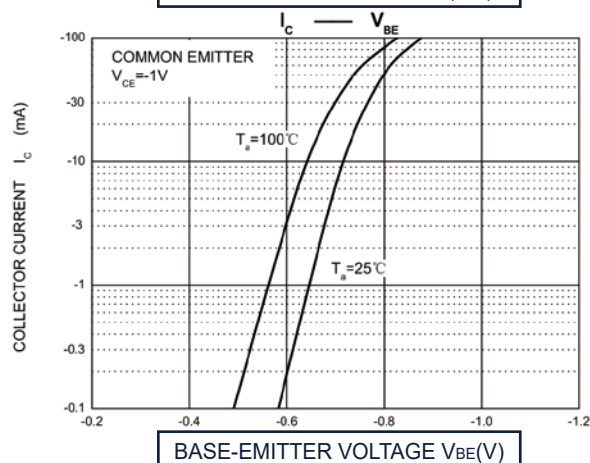
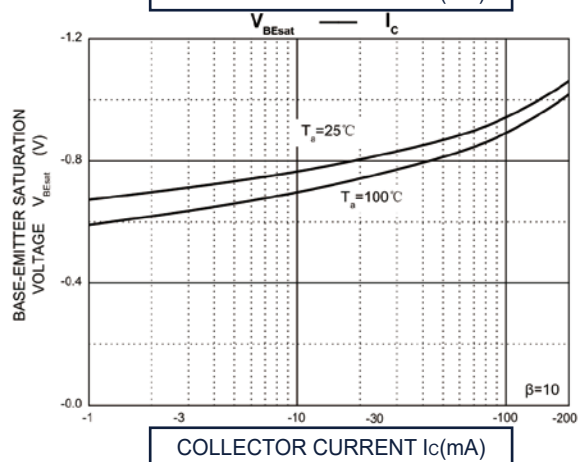
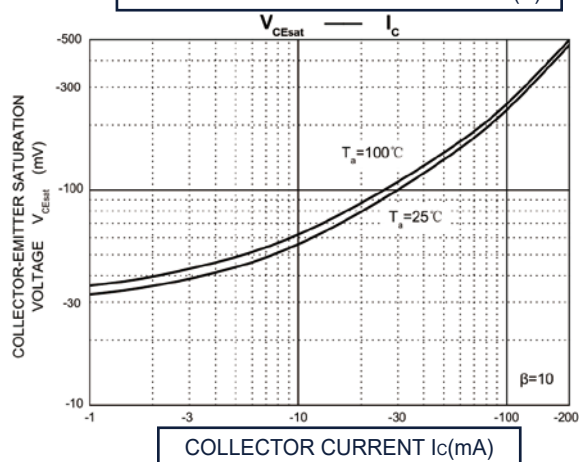
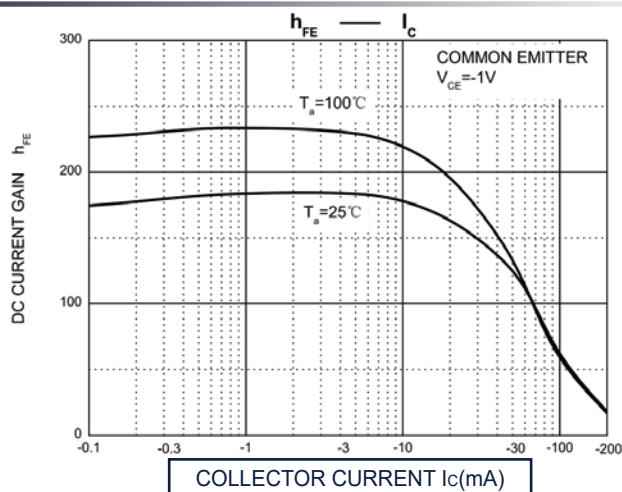
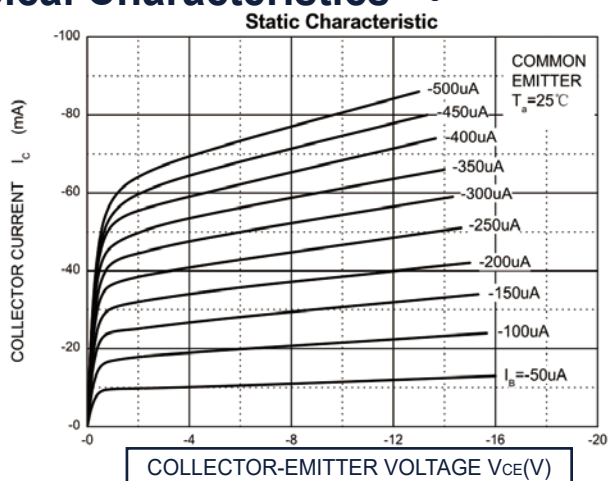


TWTLSEMI

TL-MMBT3906M

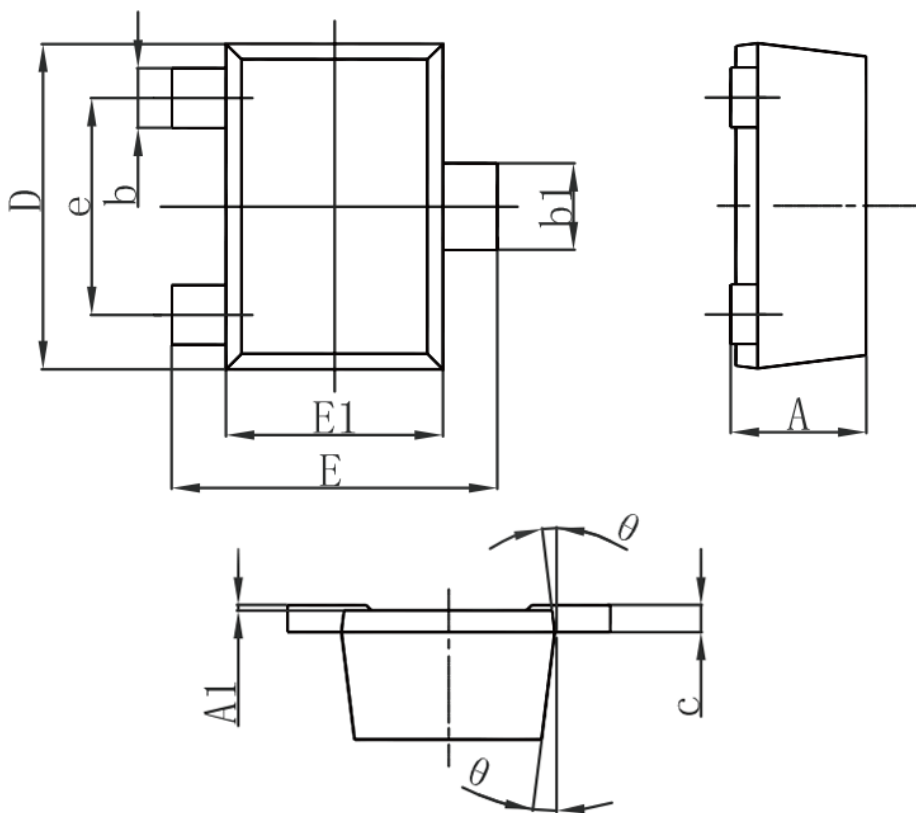
SOT-723 Plastic-Encapsulate Transistors (PNP)

Typical Characteristics





SOT-723 Package Outline Dimensions



Symbol	Dimensions in Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		0.500		0.020
A1	0.000	0.050	0.000	0.002
b	0.170	0.270	0.007	0.011
b1	0.270	0.370	0.011	0.015
c		0.150		0.006
D	1.150	1.250	0.045	0.045
E	1.150	1.250	0.045	0.049
E1	0.750	0.850	0.030	0.033
e	0.800TYP.		0.031TYP.	
θ	7° REF.		7° REF.	