



SOT-23 Plastic-Encapsulate Transistors

MMBT3906LT1

TRANSISTOR (PNP)

FEATURES

- As complementary type, the NPN transistor
- MMBT3904LT1 is Recommended
- Epitaxial planar die construction

MARKING: 2A



MAXIMUM RATINGS* T_A=25°C unless otherwise noted

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-40	V
V _{CEO}	Collector-Emitter Voltage	-40	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _c	Collector Current -Continuous	-0.2	A
P _c	Collector Dissipation	0.3	W
T _J , T _{stg}	Junction and Storage Temperature	-55-150	°C

ELECTRICAL CHARACTERISTICS(T_{amb}=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	MAX	UNIT
Collector-base breakdown voltage	V _{(BR)CBO}	I _c = -100μA, 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 =-100μA, I _C =0	-5		V
Collector cut-off current	I _{CBO}	V _{CB} = -40 V , I _E =0		-0.1	μA
Collector cut-off current	I _{CEO}	V _{CE} = -40 V , I _B =0		-0.1	μA
Emitter cut-off current	I _{EBO}	V _{EB} = -5V , I _C =0		-0.1	μA
DC current gain	h _{FE(1)}	V _{CE} =-1V, I _C =-10mA	100	300	
	h _{FE(2)}	V _{CE} = -1V, I _C =-50mA	60		
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-50 mA, I _B =-5mA		-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =- 50 mA, I _B =- 5mA		-0.95	V
Transition frequency	f _T	V _{CE} = -20V, I _C = -10mA f=100MHz	250		MHz
Delay Time	td	V _{CC} =-3.0V,V _{BE} =-0.5V I _C =-10mA,I _{B1} =-1.0mA		35	nS
Rise Time	tr			35	nS
Storage Time	ts	V _{CC} =-3.0V,I _C =-10mA I _{B1} =I _{B2} =-1.0mA		225	nS
Fall Time	tf			75	nS