

MMBT2907 TRANSISTOR (PNP)

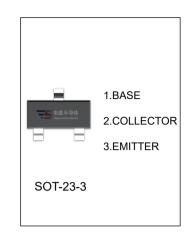
FEATURES

- Epitaxial planar die construction
- Complementary NPN Type available(MMBT2222)

Marking: M2B

MAXIMUM RATINGS (Ta=25℃ unless otherwise noted)

Symbol	Parameter	Value	Unit	
V _{CBO}	Collector-Base Voltage	-60	V	
V _{CEO}	Collector-Emitter Voltage	-40	V	
V _{EBO}	Emitter-Base Voltage	-5	V	
Ic	Collector Current -Continuous	-600	mA	
P _D	Total Device Dissipation	250	mW	
R _{θJA}	Thermal Resistance Junction to Ambient	500	°C/W	
T_J, T_stg	Operation Junction and Storage Temperature Range	-55 to +150	°C	



ELECTRICAL CHARACTERISTICS (Ta=25℃ unless otherwise specified)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-10μA,I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO*}	I _C =-10mA,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} =-50V,I _E =0			-20	nA
Base cut-off current	I _{EBO}	V _{EB} =-3V, I _C =0			-10	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30 V, V _{BE(off)} =-0.5V			-50	nA
	h _{FE(1)*}	V _{CE} =-10V,I _C =-150mA	100		300	
DC current gain	h _{FE(2)*}	V _{CE} =-10V,I _C =-0.1mA	52			
	h _{FE(3)*}	V _{CE} =-10V,I _C =-500mA	32			
Collector-emitter saturation voltage	V _{CE(sat)*}	I _C =-150mA,I _B =-15mA			-0.4	V
Conector-entitler Saturation voltage	V _{CE(sat)*}	I _C =-500mA,I _B =-50mA			-0.67	V
Base-emitter saturation voltage	V _{BE(sat)*}	I _C =-150mA,I _B =-15mA			-1	V
base-entitler saturation voltage	V _{BE(sat)*}	I _C =-500mA,I _B =-50mA			-1.2	V
Transition frequency	f _T	V _{CE} =-20V,I _C =-50mA,f=100MHz	200			MHz
Delay time	t _d	V _{CE} =-30V,I _C =-150mA, _{B1} =-15mA			10	ns
Rise time	t _r				25	ns
Storage time	ts	V _{CE} =-6V,I _C =-150mA,			225	ns
Fall time	t _f	I _{B1} =- I _{B2} =- 15mA			60	ns

^{*}Pulse test: t_p≤300μs, δ≤0.02.



