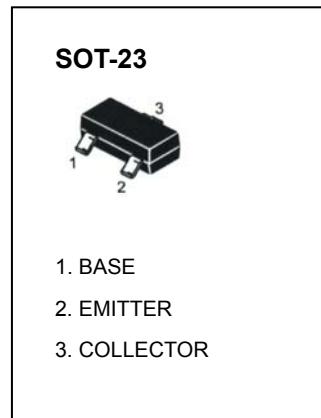


SOT-23 Plastic-Encapsulate Transistors**MMBT2907A TRANSISTOR (PNP)****FEATURES**

- Epitaxial planar die construction
- Complementary NPN Type available(MMBT2222A)

Marking: 2F**MAXIMUM RATINGS (T_A=25°C unless otherwise noted)**

Symbol	Parameter	Value	Units
V _{CBO}	Collector-Base Voltage	-60	V
V _{CEO}	Collector-Emitter Voltage	-60	V
V _{EBO}	Emitter-Base Voltage	-5	V
I _C	Collector Current -Continuous	-600	mA
P _D	Total Device Dissipation	250	mW
R _{θJA}	Thermal Resistance Junction to Ambient	500	°C/W
T _J	Junction Temperature	150	°C
T _{stg}	Storage Temperature	-55 to +150	°C

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

Parameter	Symbol	Test conditions	MIN	TYP	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	-60			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 _{CE} =-3V, I _C =0			-10	nA
Collector cut-off current	I _{CEX}	V _{CE} =-30 V, V _{BE(off)} =-0.5V			-50	nA
DC current gain	h _{FE(1)}	V _{CE} =-10V, I _C =-150mA	100		300	
	h _{FE(2)}	V _{CE} =-10V, I _C =-0.1mA	75			
	h _{FE(3)}	V _{CE} =-10V, I _C =-1mA	100			
	h _{FE(4)}	V _{CE} =-10V, I _C =-10mA	100			
	h _{FE(5)}	V _{CE} =-10V, I _C =-500mA	50			
Collector-emitter saturation voltage	V _{CE(sat)*}	I _C =-150mA, I _B =-15mA			-0.4	V
	V _{CE(sat)*}	I _C =-500mA, I _B =-50mA			-1.6	V
Base-emitter saturation voltage	V _{BE(sat)*}	I _C =-150mA, I _B =-15mA			-1.3	V
	V _{BE(sat)*}	I _C =-500mA, I _B =-50mA			-2.6	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, I _{B1} =-15mA			10	nS
Rise time	t _r				25	nS
Storage time	t _s				225	nS
Fall time	t _f				60	nS

*Pulse test: t_p≤300μS, δ≤0.02.