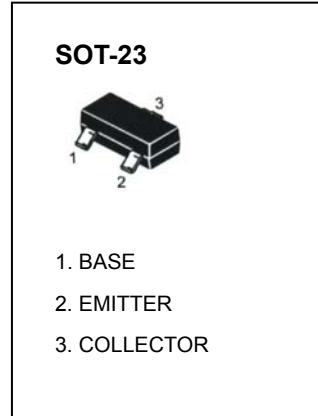


TRANSISTPR(PNP)

FEATURES

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

Marking: 2F



MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ 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
$R_{\theta JA}$	Thermal Resistance Junction to Ambient	500	°C/W
T_J	Junction Temperature	150	°C
T_{stg}	Storage Temperature	-55 to +150	°C

ELECTRICAL CHARACTERISTICS (Tamb=25°C unless otherwise specified)

Parameter	Symbol	Test conditions	MIN	TYP	MAX	UNIT
Collector-base breakdown voltage	$V_{(BR)CBO}$	$I_C=-10\mu\text{A}, I_E=0$	-60			V
Collector-emitter breakdown voltage	$V_{(BR)CEO}^*$	$I_C=-10\text{mA}, I_B=0$	-60			V
Emitter-base breakdown voltage	$V_{(BR)EBO}$	$I_E=-10\mu\text{A}, I_C=0$	-5			V
Collector cut-off current	I_{CBO}	$V_{CB}=-50\text{V}, I_E=0$			-20	nA
Base cut-off current	I_{EBO}	$V_{CE}=-3\text{V}, I_C=0$			-10	nA
Collector cut-off current	I_{CEX}	$V_{CE}=-30\text{ V}, V_{BE(\text{off})}=-0.5\text{V}$			-50	nA
DC current gain	$h_{FE(1)}$	$V_{CE}=-10\text{V}, I_C=-150\text{mA}$	100		300	
	$h_{FE(2)}$	$V_{CE}=-10\text{V}, I_C=-0.1\text{mA}$	75			
	$h_{FE(3)}$	$V_{CE}=-10\text{V}, I_C=-1\text{mA}$	100			
	$h_{FE(4)}$	$V_{CE}=-10\text{V}, I_C=-10\text{mA}$	100			
	$h_{FE(5)}$	$V_{CE}=-10\text{V}, I_C=-500\text{mA}$	50			
Collector-emitter saturation voltage	$V_{CE(\text{sat})}^*$	$I_C=-150\text{mA}, I_B=-15\text{mA}$			-0.4	V
	$V_{CE(\text{sat})}^*$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-1.6	V
Base-emitter saturation voltage	$V_{BE(\text{sat})}^*$	$I_C=-150\text{mA}, I_B=-15\text{mA}$			-1.3	V
	$V_{BE(\text{sat})}^*$	$I_C=-500\text{mA}, I_B=-50\text{mA}$			-2.6	V
Transition frequency	f_T	$V_{CE}=-20\text{V}, I_C=-50\text{mA}, f=100\text{MHz}$	200			MHz
Delay time	t_d	$V_{CE}=-30\text{V}, I_C=-150\text{mA}, I_B=-15\text{mA}$			10	nS
Rise time	t_r				25	nS
Storage time	t_s	$V_{CE}=-6\text{V}, I_C=-150\text{mA}, I_B=-I_{B2}=-15\text{mA}$			225	nS
Fall time	t_f				60	nS

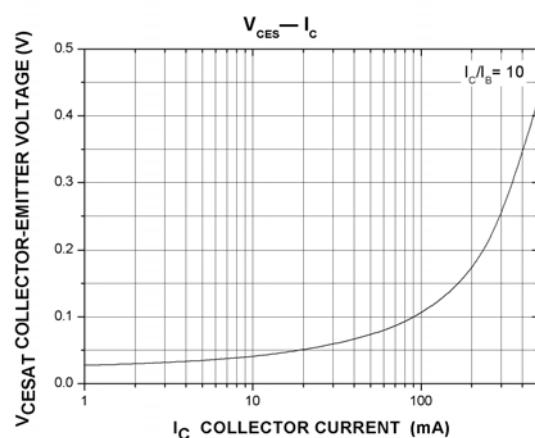
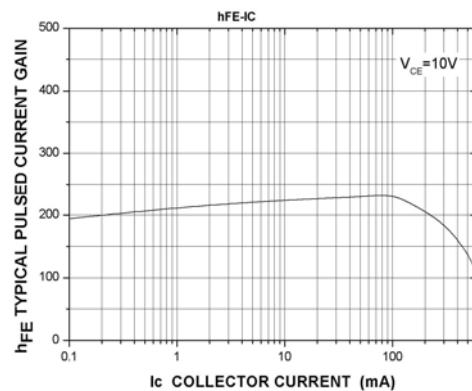
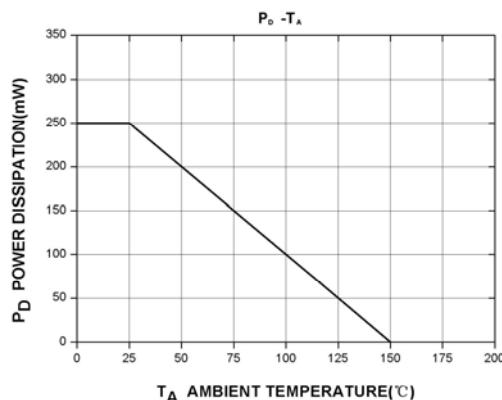
*Pulse test: $t_p \leq 300\mu\text{s}$, $\delta \leq 0.02$.

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Typical Characteristics

MMBT2907A



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