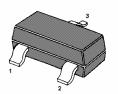
MMBTSB1197

PNP Silicon Epitaxial Planar Transistor

Low frequency transistor

The transistor is subdivided into two groups Q and R according to its DC current gain.

SOT-23



1.BASE 2.EMITTER 3.COLLECTOR SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

Parameter	Symbol	Value	Unit
Collector Base Voltage	-V _{CBO}	40	V
Collector Emitter Voltage	-V _{CEO}	32	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	800	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	Tj	150	°C
Storage Temperature Range	Ts	-55 to +150	°C

Characteristics at T_a =25 °C

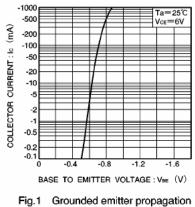
Parameter		Symbol	Min.	Max.	Unit
DC Current Gain					
at -V _{CE} = 3 V, -I _C = 100 mA	Q	h _{FE}	120	270	-
	R	h _{FE}	180	390	-
Collector Cutoff Current		-I _{CBO}	-	0.5	μA
at $-V_{CB} = 20 V$					
Emitter Cutoff Current		-I _{EBO}	-	0.5	μA
at $-V_{EB} = 4 V$					
Collector Base Breakdown Voltage		M	40		ν.
at $-I_c = 50 \ \mu A$		-V _{(BR)CBO}	40	-	V
Collector Emitter Breakdown Voltage		N/	22		V
at $-I_c = 1 \text{ mA}$		-V _{(BR)CEO}	32	-	V
Emitter Base Breakdown Voltage		N/	F		V
at -I _E = 50 μA		-V _{(BR)EBO}	5	-	V
Collector Saturation Voltage		N/		0.5	
at $-I_{C} = 500 \text{ mA}$, $-I_{B} = 50 \text{ mA}$		-V _{CE(sat)}	-	0.5	V
Output Capacitance		0		20	~ Г
at $-V_{CB} = 10 \text{ V}, I_E = 0 \text{ A}, f = 1 \text{ MHz}$		C _{ob}	-	30	pF
Transition Frequency		f⊤	50	-	MHz
at $-V_{CE} = 5 V$, $I_E = 50 mA$, f = 100 MHz					



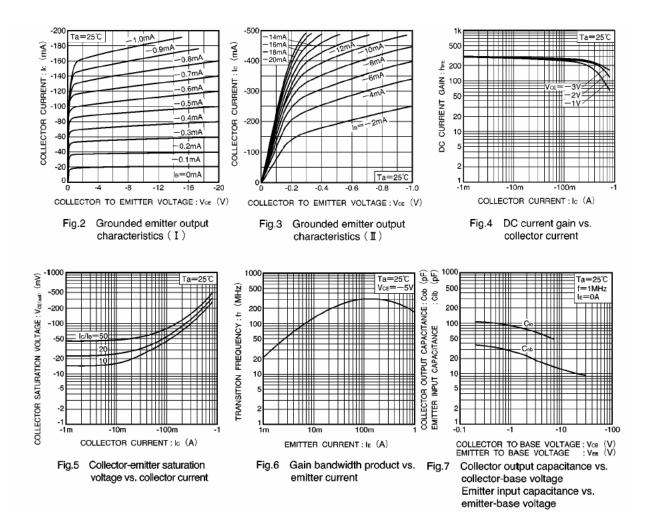
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Dated : 21/12/2005



characteristics



R

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