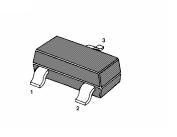
PNP Silicon Epitaxial Planar Transistor

for audio frequency, general purpose amplifier.

The transistor is subdivided into four groups O, Y, G and L, according to its DC current gain.



1. Base 2. Emitter 3. Collector

SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

	Symbol	Value	Unit
Collector Base Voltage	-V _{CBO}	60	V
Collector Emitter Voltage	-V _{CEO}	50	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	100	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	Ts	-55 to +150	°C







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MMBTSA812

Characteristics at T_{amb}=25 °C

	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain					
at -V _{CE} =6V, -I _C =1mA					
Current Gain Group O	h _{FE}	90	-	180	-
Y	h _{FE}	135	-	270	-
G	h _{FE}	200	-	400	-
L	h _{FE}	300	-	600	-
Collector Cutoff Current					
at -V _{CB} =60V	-I _{CBO}	-	-	0.1	μΑ
Emitter Cutoff Current					
at -V _{EB} =5V	-I _{EBO}	-	-	0.1	μΑ
Collector Saturation Voltage					
at -I _C =100mA, -I _B =10mA	-V _{CE(sat)}	-	-	0.3	V
Base Emitter Voltage					
at - V_{CE} =6 V , - I_{C} =1 mA	-V _{BE}	0.58	-	0.68	V
Gain Bandwidth Product					
at -V _{CE} =6V, -I _C =10mA	f⊤	-	180	-	MHz
Output Capacitance					
at -V _{CB} =10V, f=1MHz	Сов	-	4.5	-	pF

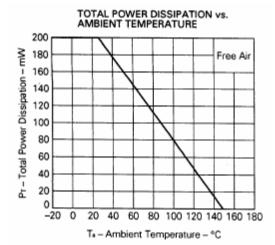


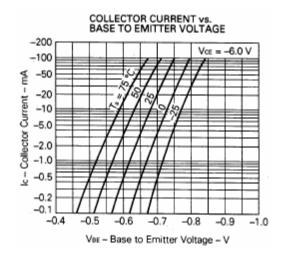


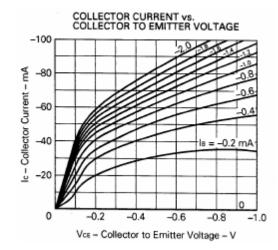


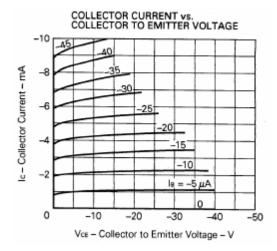


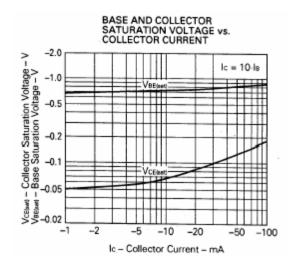
MMBTSA812

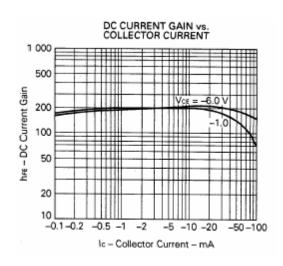














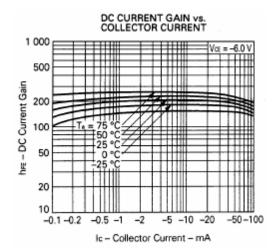
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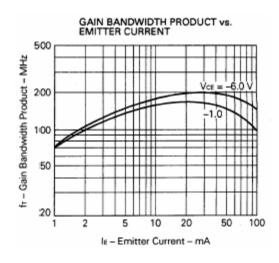
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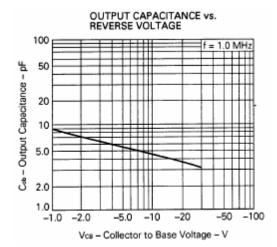


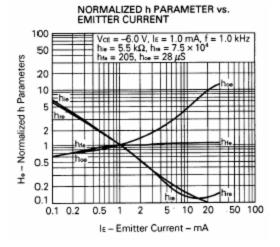


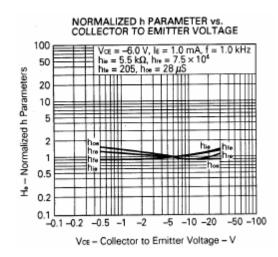














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