



MMBTSA1256

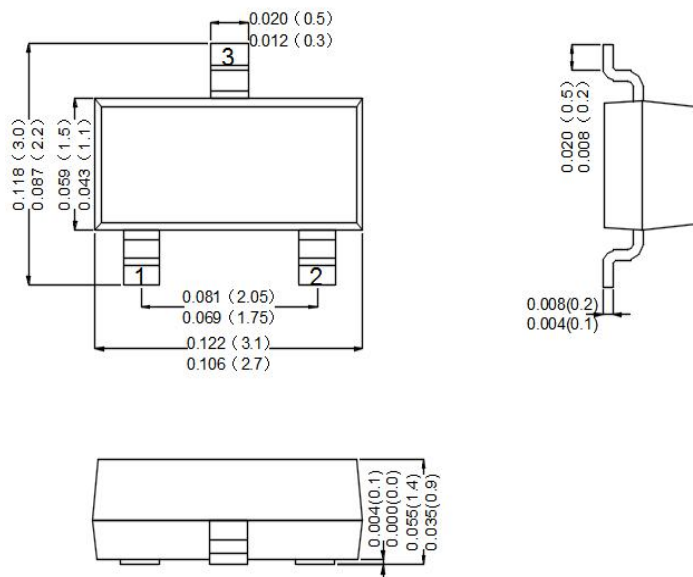
PNP Silicon Epitaxial Planar Transistor

Features

- For use in FM RF amplifier, mixer, oscillators, converters and IF amplifiers applications.
- The transistor is subdivided into three groups, R, Q and Y according to its DC current gain.

Mechanical Data

- Case: Molded Plastic, SOT-23
- Epoxy: UL 94V-0 rate flame retardant
- Terminals: Plated Leads Solderable per MIL-STD-750, Method-2026.
- Marking: marked on body
- Mounting Position : Any.
- Equivalent Circuit:



Dimensions in inches and (millimeters)

Maximum Ratings Maximum Ratings (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Value	Unit
Collector Base Voltage	$-V_{CBO}$	30	V
Collector Emitter Voltage	$-V_{CEO}$	20	V
Emitter Base Voltage	$-V_{EBO}$	5	V
Collector Current	$-I_C$	30	mA
Power Dissipation	P_{tot}	200	mW
Junction Temperature	T_j	125	°C
Storage Temperature Range	T_s	- 55 to + 125	°C

Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

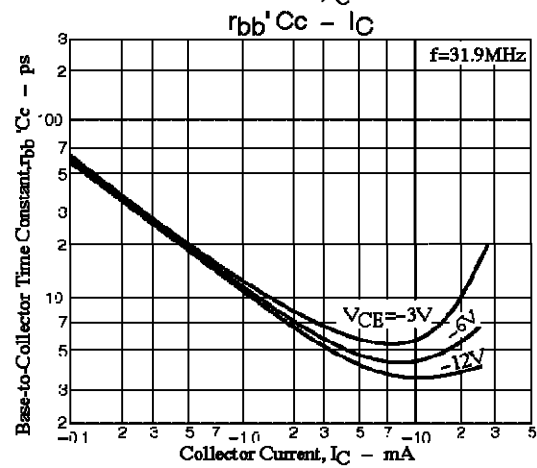
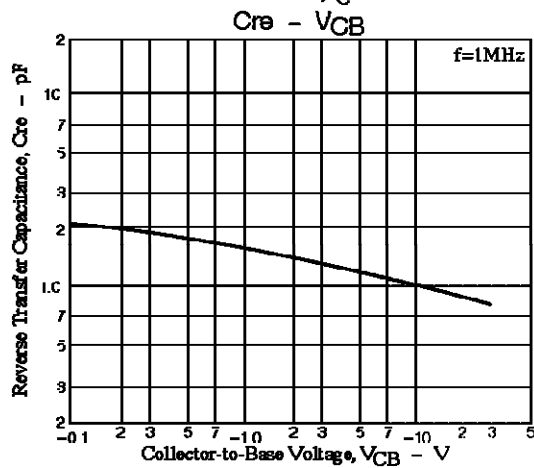
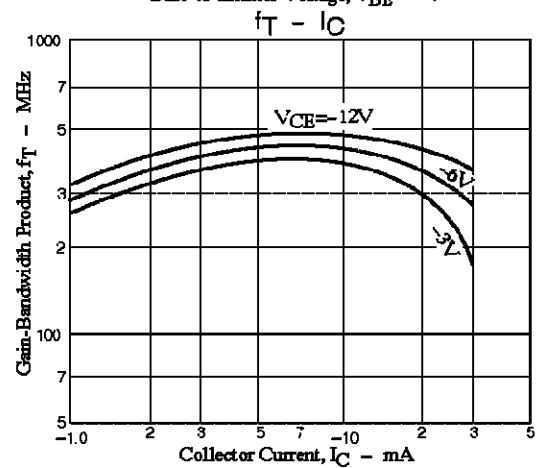
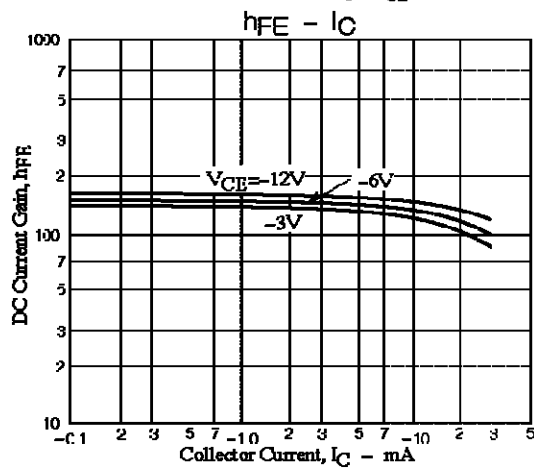
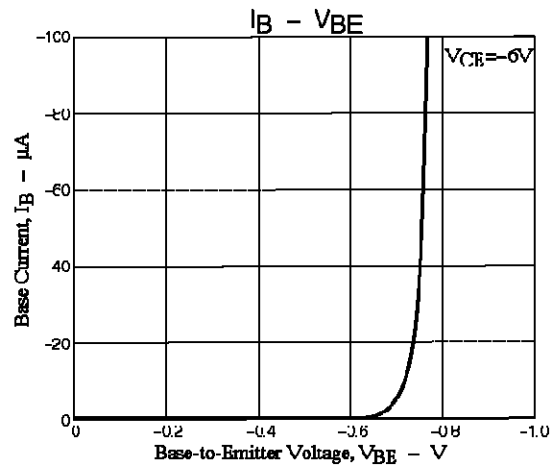
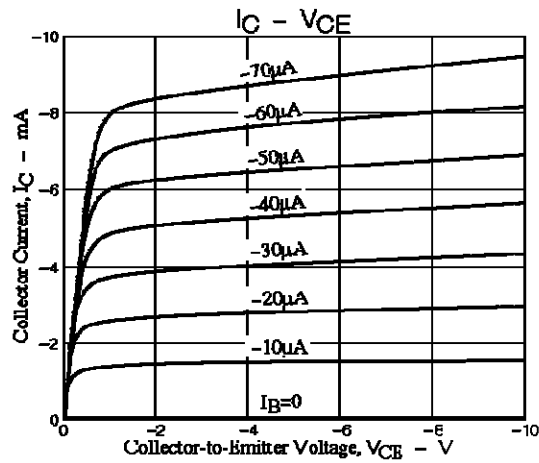
Parameter	Symbol	Min.	Typ.	Max.	Unit	
DC Current Gain at $-V_{CE} = 6\text{ V}$, $-I_C = 1\text{ mA}$ Current Gain Group	R Q Y	h_{FE} h_{FE} h_{FE}	60 90 135	- - -	120 180 270	- - -
Collector Cutoff Current at $-V_{CB} = 10\text{ V}$	$-I_{CBO}$	-	-	0.1	μA	
Emitter Cutoff Current at $-V_{EB} = 4\text{ V}$	$-I_{EBO}$	-	-	0.1	μA	
Transition Frequency at $-V_{CE} = 6\text{ V}$, $-I_C = 1\text{ mA}$	f_T	150	230	-	MHz	
Reverse Transfer Capacitance at $-V_{CB} = 6\text{ V}$, $f = 1\text{ MHz}$	C_{re}	-	-	1.7	pF	
Noise Figure at $-V_{CE} = 6\text{ V}$, $-I_C = 1\text{ mA}$, $f = 100\text{ MHz}$	NF	-	2.5	-	dB	



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Rating And Characteristic Curves





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