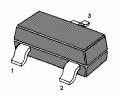
PNP Silicon Epitaxial Planar Transistor

For medium power amplifier applications

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



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	500	mA	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	Ts	- 55 to + 150	°C	

Characteristics at T_{amb} = 25 °C

Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $-V_{CE} = 1 \text{ V}$, $-I_C = 100 \text{ mA}$	O Y	h _{FE} h _{FE}	70 120	-	140 240	-
Collector Base Breakdown Voltage at -I _C = 100 µA		-V _{(BR)CBO}	40	-	-	V
Collector Emitter Breakdown Voltage at -I _C = 1 mA		-V _{(BR)CEO}	32	-	-	V
Emitter Base Breakdown Voltage at $-I_E = 10 \mu A$		-V _{(BR)EBO}	5	-	-	V
Collector Cutoff Current at -V _{CB} = 40 V		-I _{CBO}	-	-	0.1	μΑ
Emitter Cutoff Current at -V _{EB} = 5 V		-I _{EBO}	-	-	0.1	μΑ
Collector Saturation Voltage at -I _C = 100 mA, -I _B = 10 mA		-V _{CE(sat)}	-	-	0.25	V
Transition Frequency at $-V_{CE} = 6 \text{ V}$, $-I_C = 20 \text{ mA}$		f _T	-	200	-	MHz
Collector Output Capacitance at -V _{CB} = 6 V, f = 1 MHz	_	C _{ob}	-	7.5	-	pF

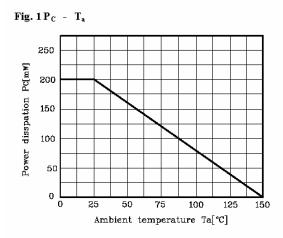


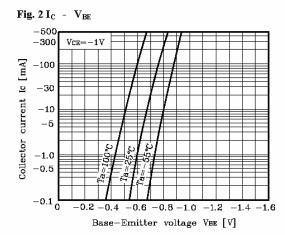


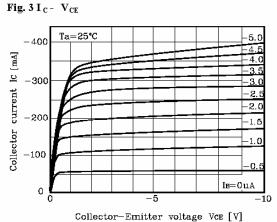


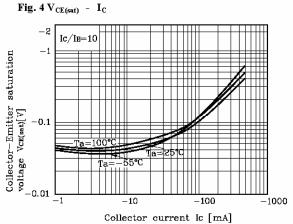


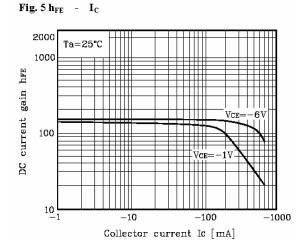


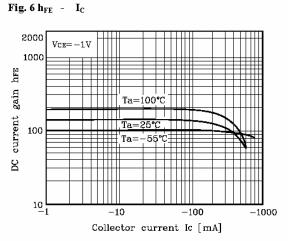














SEMTECH ELECTRONICS LTD.

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Dated: 04/08/2006