



PNP Silicon Epitaxial Planar Transistor

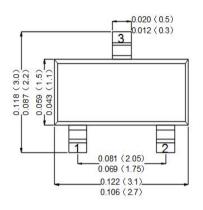
SOT-23

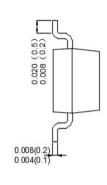
Features

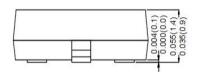
- For audio power amplifier applications.
- High DC Current Gain
- Complementary Pair with MMBTSC5344

Mechanical Data

- Case:Molded Plastic,SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable perMIL-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}	35	V
Collector Emitter Voltage	-V _{CEO}	30	V
Emitter Base Voltage	-V _{EBO}	5	V
Collector Current	-I _C	800	mA
Power Dissipation	P _{tot}	200	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

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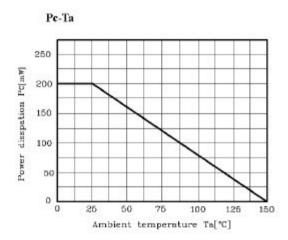
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

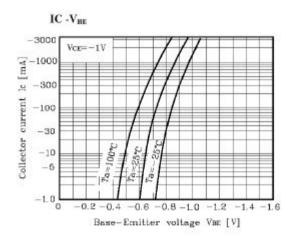
Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at $-V_{CE} = 1 \text{ V}$, $-I_{C} = 100 \text{ mA}$ Current Gain Group C	h _{FE}	100 160	- -	200 320	-
Collector Base Cutoff Current at -V _{CB} = 35 V	-I _{CBO}	-	-	100	nA
Emitter Base Cutoff Current at -V _{EB} = 5 V	-I _{EBO}	-	-	100	nA
Collector Base Breakdown Voltage at $-I_C = 500 \mu A$	-V _{(BR)CBO}	35	-	ı	V
Collector Emitter Breakdown Voltage at -I _C = 1 mA	-V _{(BR)CEO}	30	ı	ı	٧
Emitter Base Breakdown Voltage at $-I_E = 50 \mu A$	-V _{(BR)EBO}	5	-	ı	V
Collector Emitter Saturation Voltage at $-I_C = 500 \text{ mA}$, $-I_B = 20 \text{ mA}$	-V _{CE(sat)}	ı	ı	0.5	٧
Transition Frequency at $-V_{CE} = 5 \text{ V}$, $-I_{E} = 10 \text{ mA}$	f _T	-	120	-	MHz
Collector Output Capacitance at -V _{CB} = 10 V, f = 1 MHz	C _{ob}	-	19	-	pF

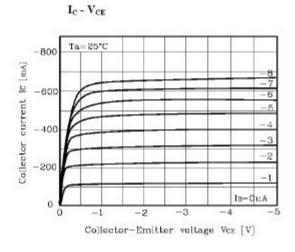
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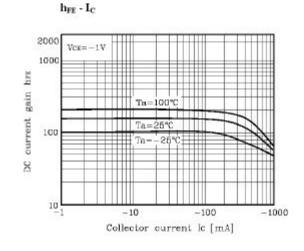


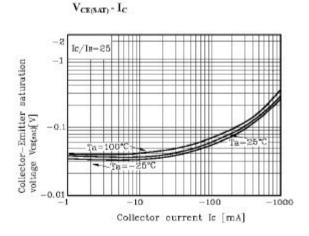
Rating And Characteristic Curves











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