



PNP Silicon Epitaxial Planar Transistor

SOT-23

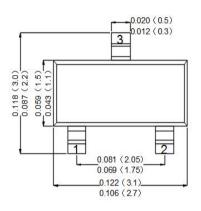
Features

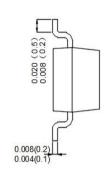
- For low frequency amplification applications
- The transistor is subdivided into two groups,

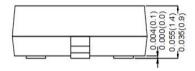
E and F, according to its DC current gain.

Mechanical Data

- Case:Molded Plastic,SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable perMIL-STD-750,Method-2026.
- Marking: CLASSIFICATION OF h_{FE(1)}
- 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}	60	V	
Collector Emitter Voltage	-V _{CEO}	50	V	
Emitter Base Voltage	-V _{EBO}	6	V	
Collector Current	-I _C	200	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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Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

Parameter	Symbol	Test conditions	Min	Тур	Max	Unit
Collector-base breakdown voltage	V _{(BR)CBO}	I _C =-100μA, I _E =0	-60			V
Collector-emitter breakdown voltage	V _{(BR)CEO}	I _C =-0.1mA, I _B =0	-50			V
Emitter-base breakdown voltage	V _{(BR)EBO}	I _E =-100μA, I _C =0	-6			V
Collector cut-off current	I _{CBO}	V _{CB} =-60V, I _E =0			-100	nA
Emitter cut-off current	I _{EBO}	V _{EB} =-6V, I _C =0			-100	nA
DC current gain	h _{FE(1)}	V _{CE} =-6V, I _C =-1mA	150		500	
	h _{FE(2)}	V _{CE} =-6V, I _C =-0.1mA	90			
Collector-emitter saturation voltage	V _{CE(sat)}	I _C =-100mA, I _B =-10mA			-0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	I _C =-100mA, I _B =-10mA			-1	V
Transition frequency	f⊤	V _{CE} =-6V,I _C =-10mA		200		MHz
Collector output capacitance	C _{ob}	V _{CB} =-6V, I _E =0, f=1MHz		4		pF

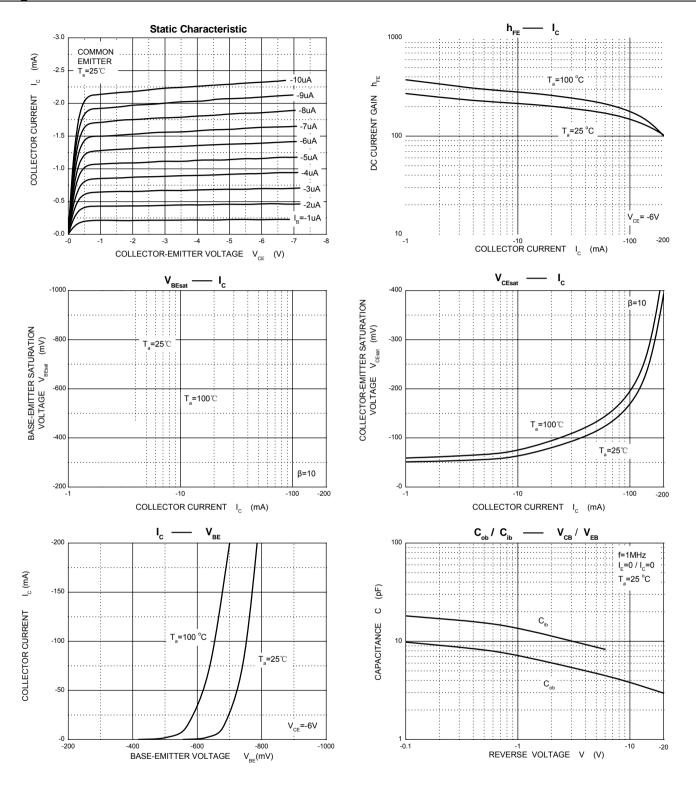
CLASSIFICATION OF h_{FE(1)}

RANK	E	F
RANGE	150–300	250–500
MARKING	ME	MF

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Rating And Characteristic Curves



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