



PNP Silicon Epitaxial Planar Transistor

SOT-23

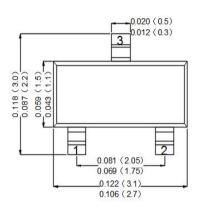
Features

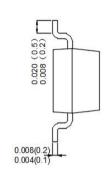
- For high current drive application
- The transistor is subdivided into three groups

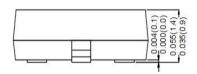
E,F and G according to its DC current gain.

Mechanical Data

- Case:Molded Plastic,SOT-23
- Epoxy:UL 94V-0 rate flame retardant
- Terminals:Plated Leads Solderable perMIL-STD-750,Method-2026.
- Marking: 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}	25	V	
Collector Emitter Voltage	-V _{CEO}	20	V	
Emitter Base Voltage	-V _{EBO}	4	V	
Collector Current	-I _C	700	mA	
Peak Collector Current	-I _{CM}	1	А	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	T _j	150	°C	
Storage Temperature Range	Ts	- 55 to + 150	°C	

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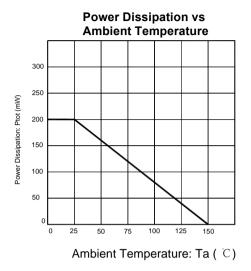
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

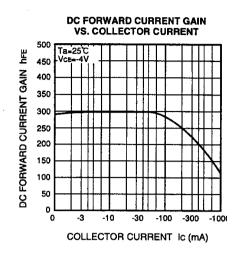
Parameter		Symbol	Min.	Тур.	Max.	Unit
DC Current Gain						
at $-V_{CE} = 4 \text{ V}$, $-I_{C} = 100 \text{ mA}$	E	h _{FE}	150	_	300	_
	F	h _{FE}	250	-	500	-
	G	h _{FE}	400	-	800	-
Collector Cutoff Current		-1	_	-	1	۸
at $-V_{CB} = 25 \text{ V}$		-I _{CBO}	•	•	I	μΑ
Emitter Cutoff Current		-1			1	۸
at $-V_{EB} = 2 V$		-I _{EBO}	•	•	I	μA
Collector Base Breakdown Voltage		V	25			V
at $-I_C = 10 \mu\text{A}$		-V _{(BR)CBO}	25	-	-	V
Collector Emitter Breakdown Voltage		V	20			V
at $-I_C = 100 \mu\text{A}$		-V _{(BR)CEO}	20	-	-	V
Emitter Base Breakdown Voltage		V	4			V
at $-I_E = 10 \mu A$		-V _{(BR)EBO}	4	-	-	V
Collector Saturation Voltage		\/			0.5	V
at $-I_C = 500 \text{ mA}$, $-I_B = 25 \text{ mA}$		-V _{CE(sat)}	•	1	0.5	V
Transition Frequency		f		100		MHz
at $-V_{CE} = 6 \text{ V}, I_{E} = 10 \text{ mA}$		f⊤	_	180	-	IVITZ

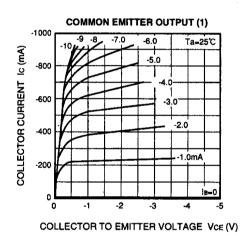
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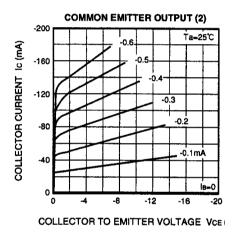


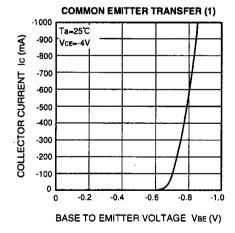
Rating And Characteristic Curves

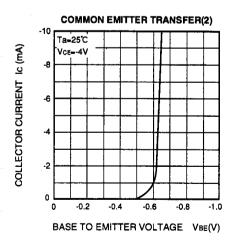












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