



PNP Silicon Epitaxial Planar Transistor

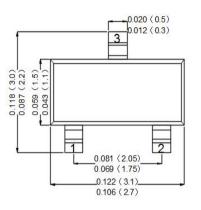
SOT-23

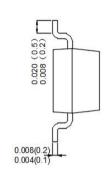
Features

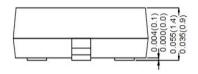
- For switching and general purpose applications.
- The transistor is subdivided into three groups
- O, Y and G, according to its DC current gain.

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 Emitter Voltage	-V _{CEO} 50		V	
Collector Base Voltage	-V _{CBO}	50	V	
Emitter Base Voltage	-V _{EBO}	5	V	
Collector Current	-I _C	150	mA	
Base Current	-I _B	30	mA	
Power Dissipation	P _{tot}	200	mW	
Junction Temperature	Tj	150	°C	
Storage Temperature Range	T _{stg}	- 55 to + 150	°C	

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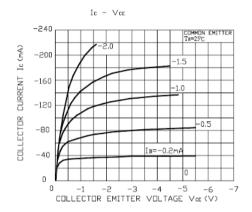
Electrical Characteristics (Rating at 25°C ambient temperature unless otherwise specified.)

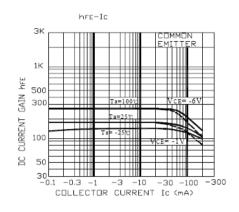
Parameter	Symbol	Min.	Тур.	Max.	Unit
DC Current Gain at -V _{CE} = 6 V, -I _C = 2 mA	h _{FE} h _{FE}	70 120 200	- - -	140 240 400	- - -
Collector Base Cutoff Current at -V _{CB} = 50 V	-I _{CBO}	-	-	0.1	μA
Emitter Base Cutoff Current at -V _{EB} = 5 V	-I _{EBO}	-	-	0.1	μA
Collector Emitter Saturation Voltage at $-I_C = 100 \text{ mA}$, $-I_B = 10 \text{ mA}$	-V _{CE(sat)}	-	-	0.3	V
Transition Frequency at $-V_{CE} = 10 \text{ V}$, $-I_C = 1 \text{ mA}$	f _T	80	-	-	MHz
Collector Output Capacitance at -V _{CB} = 10 V, f = 1 MHz	C _{ob}	-	4	7	pF
Noise Figure at -V _{CE} = 6 V, -I _C = 0.1 mA, f = 1 KHz, R _G = 10 K Ω	NF	-	1	10	dB

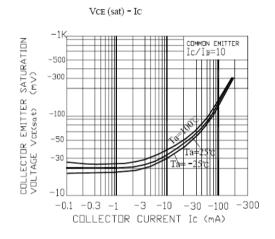
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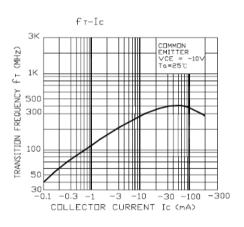


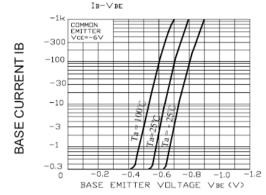
Rating And Characteristic Curves

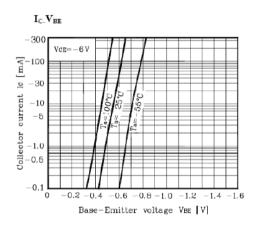


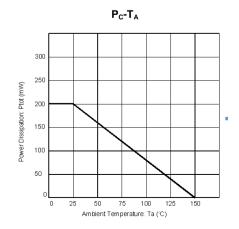












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