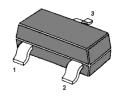


NPN Silicon Epitaxial Planar Transistor

For switching and amplifier applications. Especially suitable for AF-driver stages and low power output stages.



1. Base 2. Emitter 3. Collector SOT-23 Plastic Package

Absolute Maximum Ratings (T_a = 25 °C)

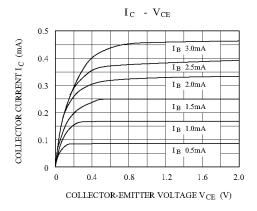
Parameter	Symbol	Value	Unit
Collector Base Voltage	V _{CBO}	40	V
Collector Emitter Voltage	V _{CEO}	25	V
Emitter Base Voltage	V_{EBO}	6	V
Collector Current	I _C	1	Α
Power Dissipation	P _{tot}	350	mW
Junction Temperature	T _j	150	°C
Storage Temperature Range	T _{stg}	- 55 to + 150	°C

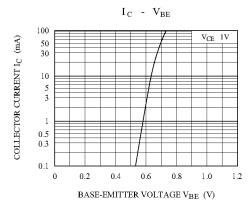
Characteristics at $T_a = 25$ °C

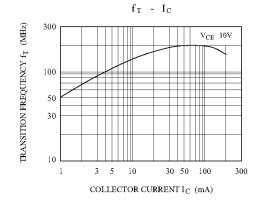
Parameter	Symbol	Min.	Max.	Unit
DC Current Gain at $V_{CE} = 1 \text{ V}$, $I_C = 100 \text{ mA}$ at $V_{CE} = 1 \text{ V}$, $I_C = 800 \text{ mA}$	h _{FE}	200	400	- - -
Collector Base Cutoff Current at $V_{CB} = 35 \text{ V}$	I _{CBO}	-	100	nA
Emitter Base Cutoff Current at $V_{EB} = 6 \text{ V}$	I _{EBO}	-	100	nA
Collector Base Breakdown Voltage at $I_C = 100 \mu A$	V _{(BR)CBO}	40	-	V
Collector Emitter Breakdown Voltage at I _C = 2 mA	V _{(BR)CEO}	25	-	V
Emitter Base Breakdown Voltage at I _E = 100 μA	V _{(BR)EBO}	6	-	V
Collector Emitter Saturation Voltage at I _C = 800 mA, I _B = 80 mA	V _{CE(sat)}	-	0.5	V
Base Emitter Saturation Voltage at $I_C = 800 \text{ mA}$, $I_B = 80 \text{ mA}$	$V_{BE(sat)}$	-	1.2	V
Base Emitter Voltage at $V_{CE} = 1 \text{ V}$, $I_C = 10 \text{ mA}$	$V_{BE(on)}$	-	1	V
Gain Bandwidth Product at $V_{CE} = 10 \text{ V}$, $I_{C} = 50 \text{ mA}$	f _T	120	-	MHz

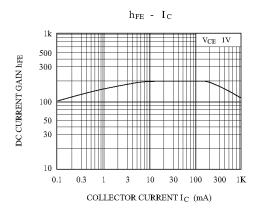


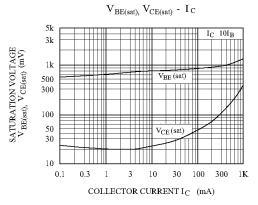


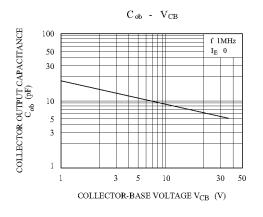




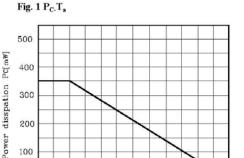












75 Ambient temperature Ta[°C]

100

125

50

RESTRICTIONS ON PRODUCT USE

100

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