2SC5121

Silicon NPN triple diffusion planar type

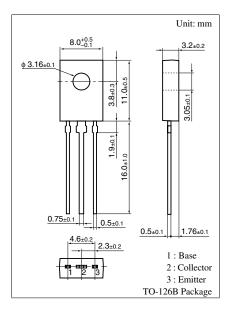
For general amplification

■ Features

- \bullet High collector to base voltage V_{CBO}
- \bullet High collector to emitter voltage V_{CEO}
- \bullet Small collector output capacitance C_{ob}
- TO-126B package, which is fitted to a heat sink without any insulation parts

■ Absolute Maximum Ratings $T_C = 25$ °C

Parameter	Symbol	Rating	Unit
Collector to base voltage	V _{CBO}	400	V
Collector to emitter voltage	V _{CEO}	400	V
Emitter to base voltage	V _{EBO}	7	V
Peak collector current	I_{CP}	100	mA
Collector current	I_{C}	70	mA
Collector power dissipation	P _C	1.2	W
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	-55 to +150	°C

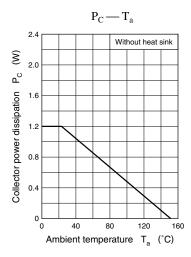


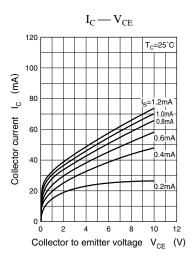
■ Electrical Characteristics $T_C = 25^{\circ}C$

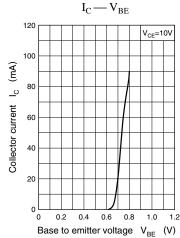
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 300 \text{ V}, I_E = 0$			10	μΑ
	Hot I _{CEO}	$V_{CE} = 380 \text{ V}, I_B = 0, T_a = 80^{\circ}\text{C}$			10	μA
Collector to emitter voltage	V _{CEO}	$I_C = 100 \mu\text{A}, I_B = 0$	400			V
Emitter to base voltage	V_{EBO}	$I_E = 1 \mu A, I_C = 0$	7			V
Forward current transfer ratio	h _{FE}	$V_{CE} = 10 \text{ V}, I_{C} = 5 \text{ mA}$	30		150	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 5 \text{ mA}$			1.2	V
Transition frequency	f_T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$	50	80		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		4	8	pF

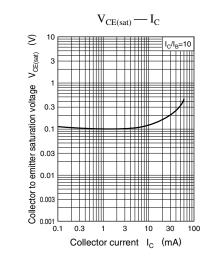
Panasonic

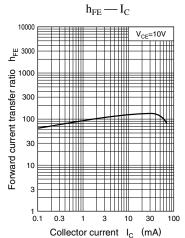
2SC5121 Power Transistors

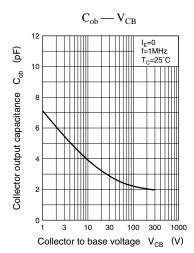












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