2SC2631

Silicon NPN epitaxial planer type

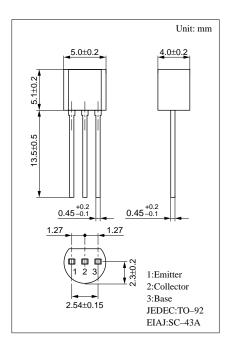
For low-frequency high breakdown voltage amplification Complementary to 2SA1123

Features

- Satisfactory linearity of forward current transfer ratio h_{FE}.
- High collector to emitter voltage V_{CEO}.
- Small collector output capacitance C_{ob}.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	150	V
Collector to emitter voltage	V_{CEO}	150	V
Emitter to base voltage	$V_{\rm EBO}$	5	V
Peak collector current	I_{CP}	100	mA
Collector current	I_{C}	50	mA
Collector power dissipation	P_{C}	750	mW
Junction temperature	T _j	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



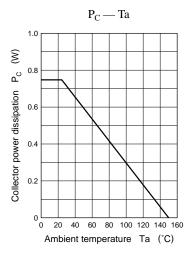
Electrical Characteristics (Ta=25°C)

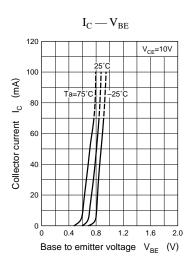
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	$V_{CB} = 100V, I_{E} = 0$			1	μА
Collector to emitter voltage	V _{CEO}	$I_C = 0.1 \text{mA}, I_B = 0$	150			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	5			V
Forward current transfer ratio	h _{FE} *	$V_{CE} = 5V$, $I_C = 10mA$	130		330	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = 30\text{mA}, I_B = 3\text{mA}$			1	V
Transition frequency	f_T	$V_{CB} = 10V, I_E = -10mA, f = 200MHz$		160		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10V, I_{E} = 0, f = 1MHz$			3	pF
Noise voltage	NV	$V_{CE} = 10V, I_C = 1 mA, G_V = 80 dB$ $R_g = 100 k\Omega, Function = FLAT$		150	300	mV

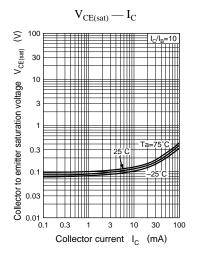
*hFE Rank classification

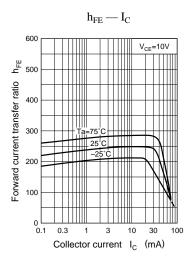
Rank	R	S
h_{FE}	130 ~ 220	185 ~ 330

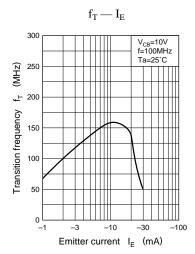
Transistor 2SC2631

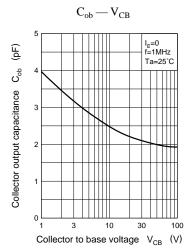












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