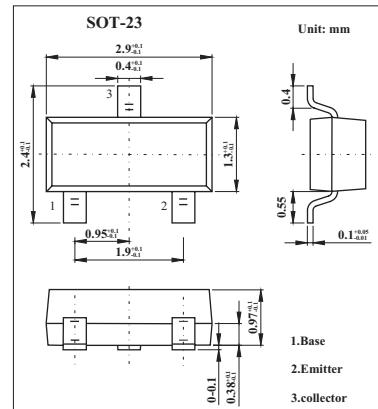


Silicon PNP Epitaxial Type Transistor

2SA1162

■ Features

- High voltage and high current: $V_{CEO} = -50$ V, $I_C = 150$ mA (max)
- Low noise: $NF = 1$ dB (typ.), 10dB (max)
- Small package



■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

Parameter	Symbol	Rating	Unit
Collector-base voltage	V_{CBO}	-50	V
Collector-emitter voltage	V_{CEO}	-50	V
Emitter-base voltage	V_{EBO}	-5	V
Collector current	I_C	-150	mA
Base current	I_B	-30	mA
Collector power dissipation	P_C	150	mW
Junction temperature	T_j	125	°C
Storage temperature range	T_{stg}	-55 to +125	°C

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

Parameter	Symbol	Testconditons	Min	Typ	Max	Unit
Collector cut-off current	I_{CBO}	$V_{CB} = -50$ V, $I_E = 0$			-0.1	μA
Emitter cut-off current	I_{EBO}	$V_{EB} = -5$ V, $I_C = 0$			-0.1	μA
DC current gain	h_{FE}	$V_{CE} = -6$ V, $I_C = -2$ mA	70		400	
Collector-emitter saturation voltage	$V_{CE(\text{sat})}$	$I_C = -100$ mA, $I_B = -10$ mA		-0.1	-0.3	V
Collector output capacitance	C_{ob}	$V_{CB} = -10$ V, $I_E = 0$, $f = 1$ MHz		4	7	pF
Noise figure	NF	$V_{CE} = -6$ V, $I_C = -0.1$ mA, $f = 1$ kHz, $R_g = 10$ k Ω		1.0	10	dB
Transition frequency	f_T	$V_{CE} = -10$ V, $I_C = -1$ mA	80			MHz

■ hFE Classification

Marking	SO	SY	SR
Rank	O	Y	GR
hFE	70~140	120~240	200~400

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