2SA1532

Silicon PNP epitaxial planar type

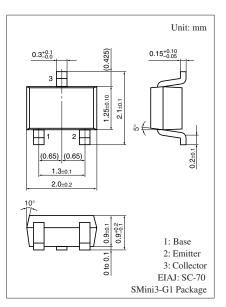
For low-frequency amplification Complementary to 2SC3930

Features

- High transition frequency f_T
- S-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing

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

Parameter	Symbol	Rating	Unit		
Collector-base voltage (Emitter open)	V _{CBO}	-30	V		
Collector-emitter voltage (Base open)	V _{CEO}	-20	V		
Emitter-base voltage (Collector open)	V _{EBO}	-5	V		
Collector current	I _C	-30	mA		
Collector power dissipation	P _C	150	mW		
Junction temperature	Tj	150	°C		
Storage temperature	T _{stg}	-55 to +150	°C		



Marking Symbol: E

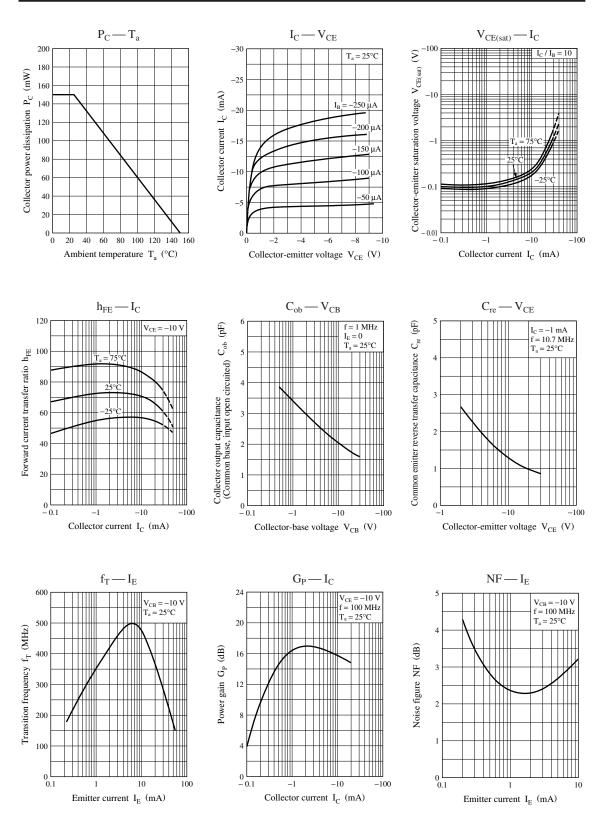
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Base-emitter saturation voltage	V _{BE}	$V_{CE} = -10 \ \mu A, I_C = -1 \ mA$		- 0.7		V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -20 \text{ V}, I_B = 0$			-100	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$			-10	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}$	50		220	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -1 \text{ mA}$		- 0.1		V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$	150	300		MHz
Noise figure	NF	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 5 \text{ MHz}$		2.8	4.0	dB
Reverse transfer impedance	Z _{rb}	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 2 \text{ MHz}$		22	60	Ω
Common-emitter reverse transfer capacitance	C _{re}	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 10.7 \text{ MHz}$		1.2	2.0	pF

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors. 2. *: Rank classification

Rank	А	В	С
h _{FE}	50 to 100	70 to 140	110 to 220

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