

XP06435 (XP6435)

Silicon PNP epitaxial planar type

For high-frequency amplification

■ Features

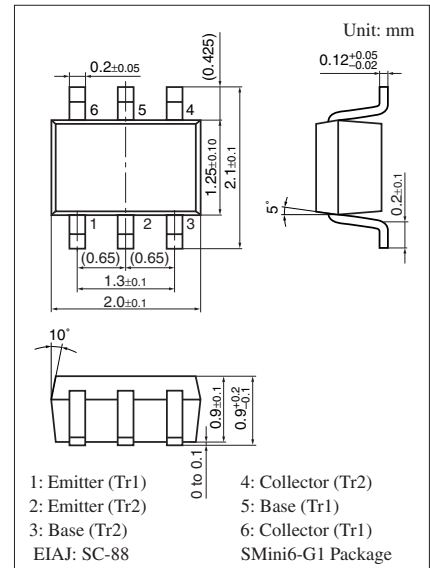
- Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half

■ Basic Part Number

- 2SA1022 × 2

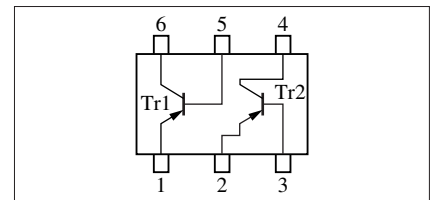
■ Absolute Maximum Ratings $T_a = 25^\circ\text{C}$

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
Total power dissipation	P_{T}	150	mW
Junction temperature	T_{j}	150	$^\circ\text{C}$
Storage temperature	T_{stg}	-55 to +150	$^\circ\text{C}$



Marking Symbol: 7W

Internal Connection

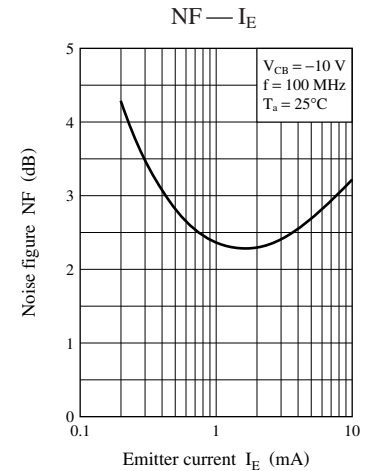
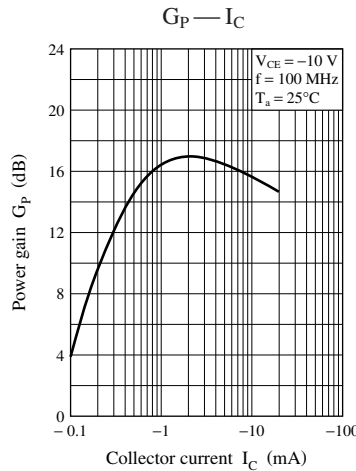
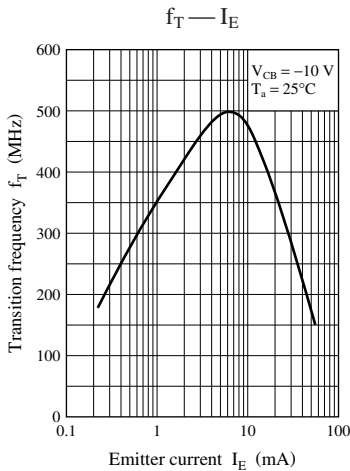
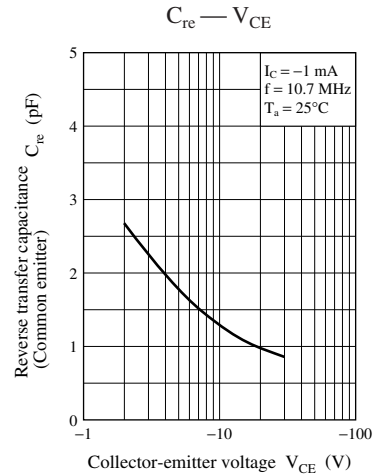
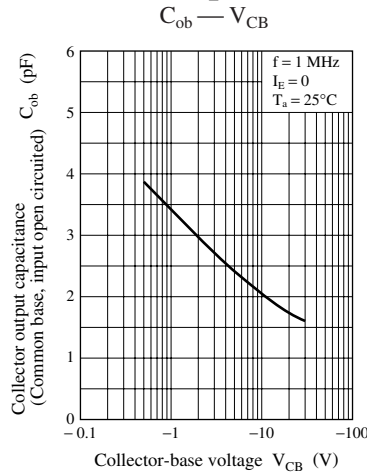
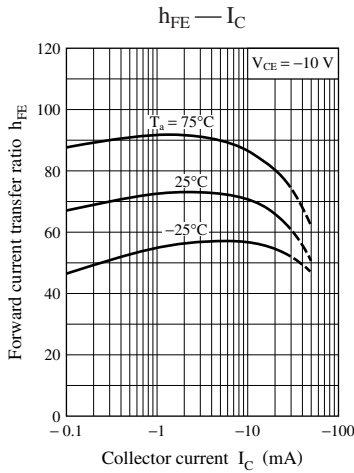
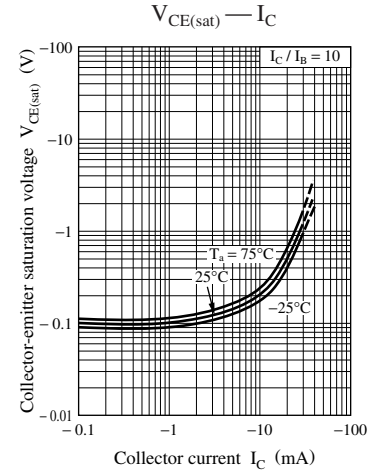
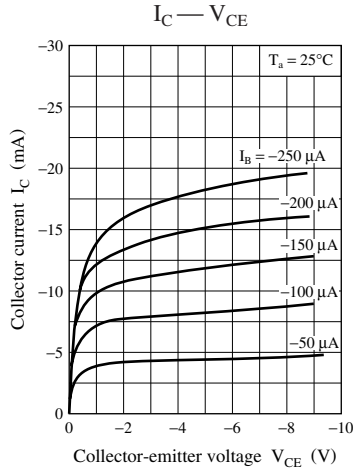
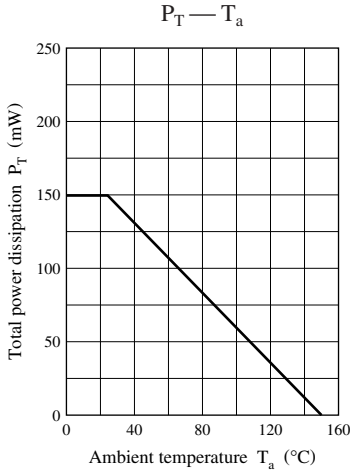


■ Electrical Characteristics $T_a = 25^\circ\text{C} \pm 2^\circ\text{C}$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Base-emitter voltage	V_{BE}	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -1 \text{ mA}$		-0.7		V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 0$			-0.1	μA
Collector-emitter cutoff current (Base open)	I_{CEO}	$V_{\text{CE}} = -20 \text{ V}, I_{\text{B}} = 0$			-100	μA
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{\text{EB}} = -5 \text{ V}, I_{\text{C}} = 0$			-10	μA
Forward current transfer ratio	h_{FE}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 1 \text{ mA}$	50		220	—
Collector-emitter saturation voltage	$V_{\text{CE(sat)}}$	$I_{\text{C}} = -10 \text{ mA}, I_{\text{B}} = -1 \text{ mA}$		-0.1		V
Transition frequency	f_{T}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 1 \text{ mA}, f = 200 \text{ MHz}$	150			MHz
Noise figure	NF	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 1 \text{ mA}, f = 5 \text{ MHz}$		2.8		dB
Reverse transfer impedance	Z_{rb}	$V_{\text{CB}} = -10 \text{ V}, I_{\text{E}} = 1 \text{ mA}, f = 2 \text{ MHz}$		22		Ω
Reverse transfer capacitance (Common emitter)	C_{re}	$V_{\text{CE}} = -10 \text{ V}, I_{\text{C}} = -1 \text{ mA}, f = 10.7 \text{ MHz}$		1.2		pF

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

Note) The part number in the parenthesis shows conventional part number.



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