

XN06534 (XN6534)

Silicon NPN epitaxial planer transistor

For high-frequency amplification

■ Features

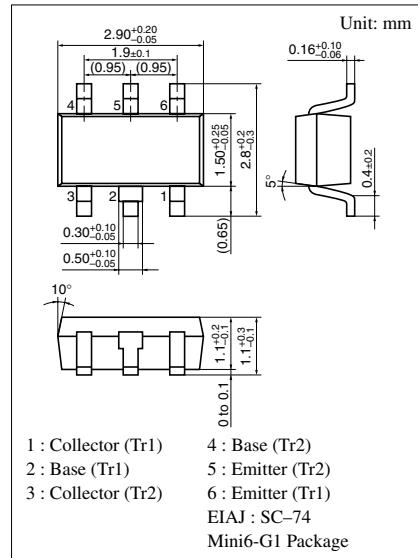
- Two elements incorporated into one package.
- Reduction of the mounting area and assembly cost by one half.

■ Basic Part Number of Element

- 2SC2404 \times 2 elements

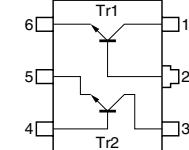
■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Rating of element	V _{CBO}	30	V
	V _{CEO}	20	V
	V _{EBO}	3	V
	I _C	15	mA
Overall	P _T	200	mW
	T _j	150	°C
	T _{stg}	-55 to +150	°C



Marking Symbol: 7F

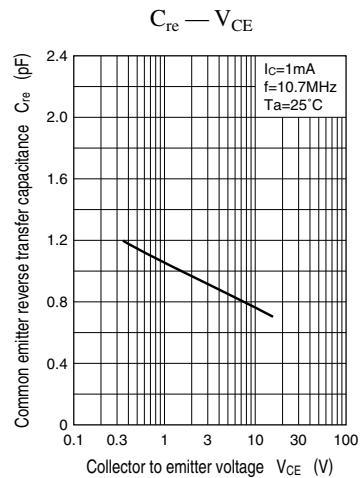
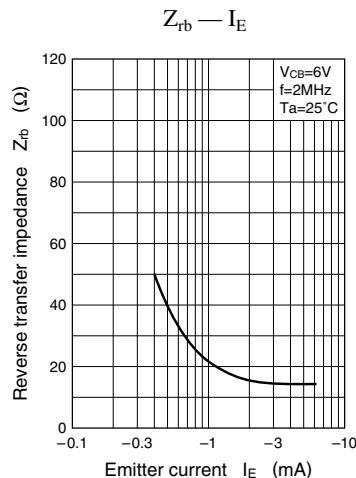
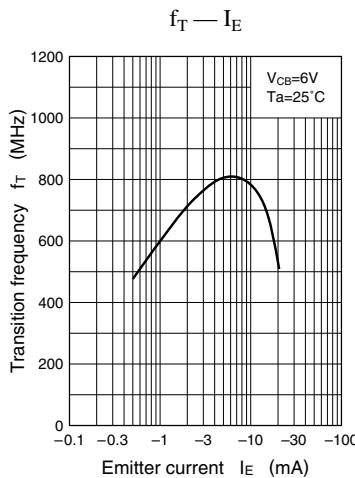
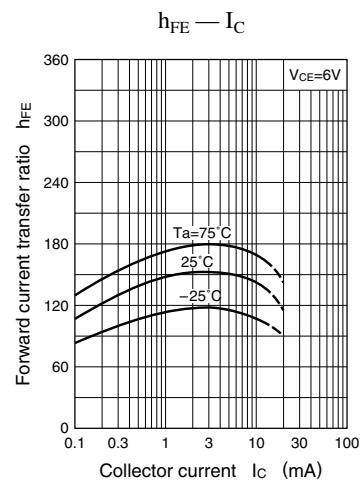
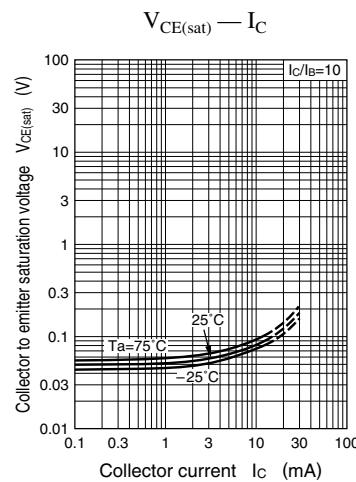
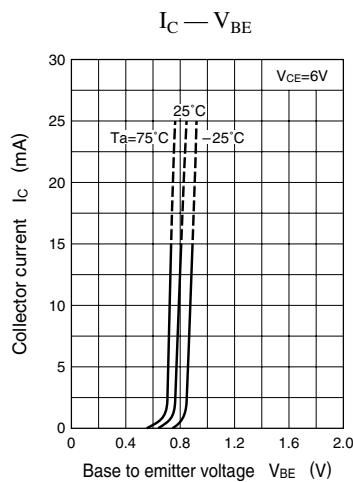
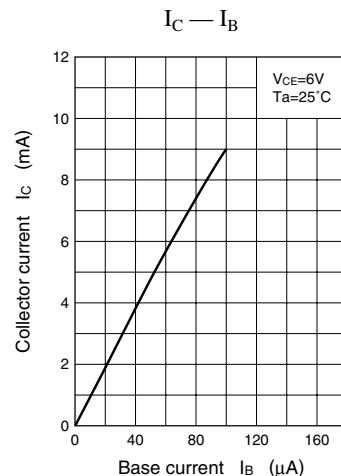
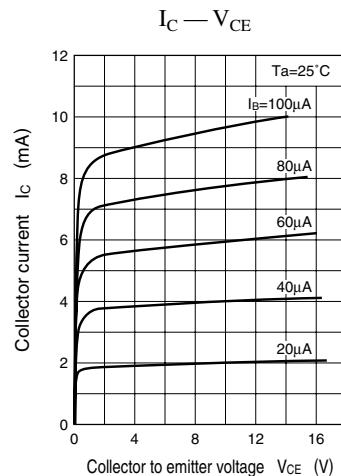
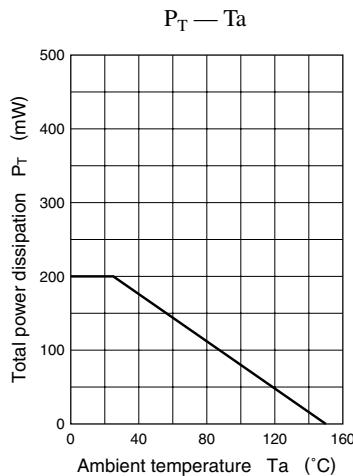
Internal Connection



■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	I _C = 10µA, I _E = 0	30			V
Emitter to base voltage	V _{EBO}	I _E = 10µA, I _C = 0	3			V
Forward current transfer ratio	h _{FE}	V _{CB} = 6V, I _E = -1mA	40		260	
Forward current transfer h _{FE} ratio	h _{FE} (small/large) ^{*1}	V _{CB} = 6V, I _E = -1mA	0.5	0.99		
Base to emitter voltage	V _{BE}	V _{CB} = 6V, I _E = -1mA		720		mV
Common emitter reverse transfer capacitance	C _{re}	V _{CB} = 6V, I _E = -1mA, f = 10.7MHz		0.8	1	pF
Transition frequency	f _T	V _{CB} = 6V, I _E = -1mA, f = 200MHz	450	650		MHz
Noise figure	NF	V _{CB} = 6V, I _E = -1mA, f = 100MHz		3.3		dB
Power gain	PG	V _{CB} = 6V, I _E = -1mA, f = 100MHz		24		dB

^{*1} Ratio between 2 elements



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