

XN06534 (XN6534)

Silicon NPN epitaxial planer transistor

For high-frequency amplification

Features

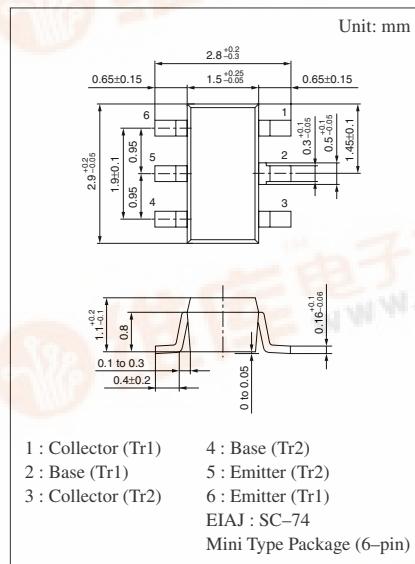
- Two elements incorporated into one package.
- Reduction of the mounting area and assembly cost by one half.

Basic Part Number of Element

- 2SC2404 \times 2 elements

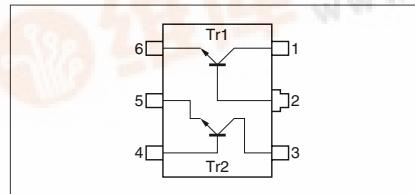
Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V _{CBO}	30
	Collector to emitter voltage	V _{CEO}	20
	Emitter to base voltage	V _{EBO}	3
	Collector current	I _C	15
Overall	Total power dissipation	P _T	200
	Junction temperature	T _j	150
	Storage temperature	T _{stg}	-55 to +150



Marking Symbol: 7F

Internal Connection



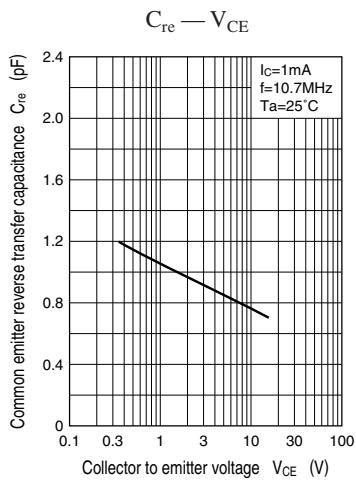
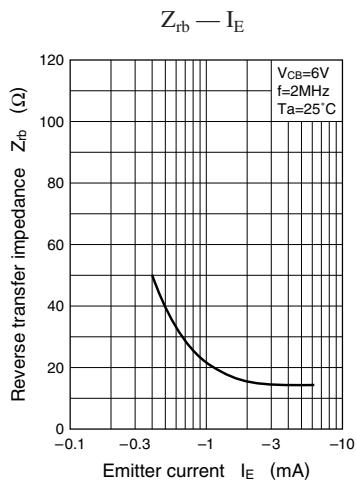
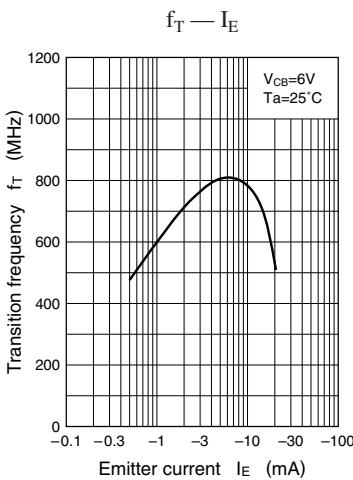
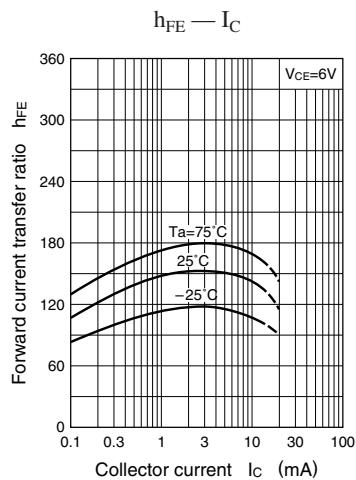
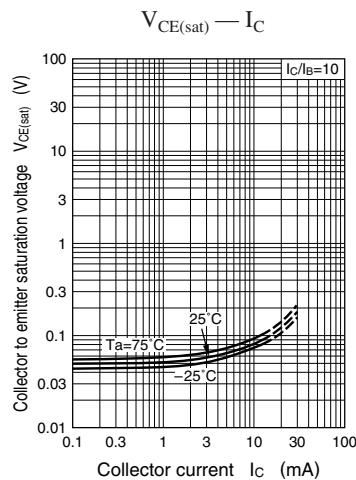
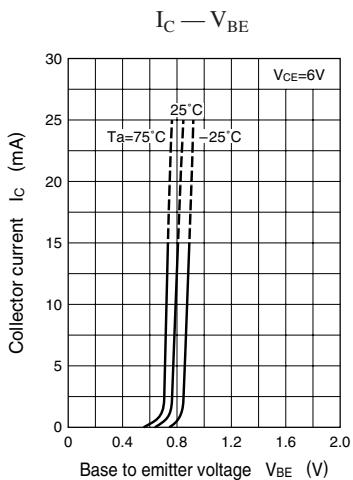
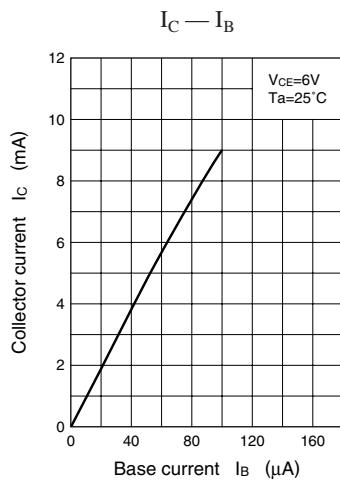
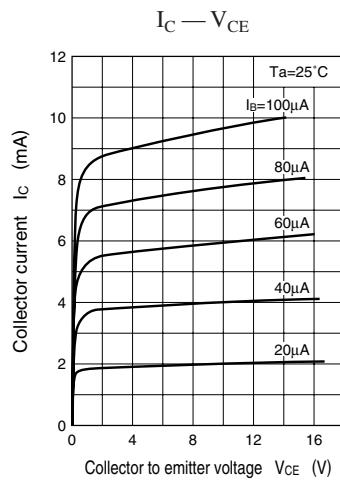
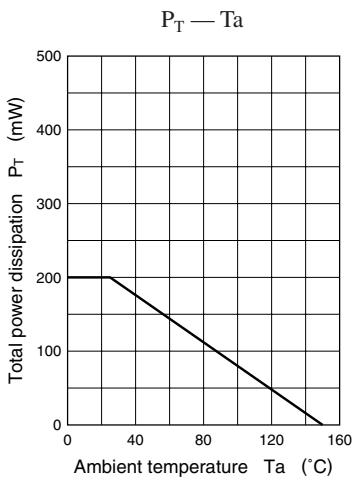
Electrical Characteristics (Ta=25°C)

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

Composite Transistors

XN06534



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