

# XP6534

Silicon NPN epitaxial planer transistor

For high-frequency amplification

## ■ Features

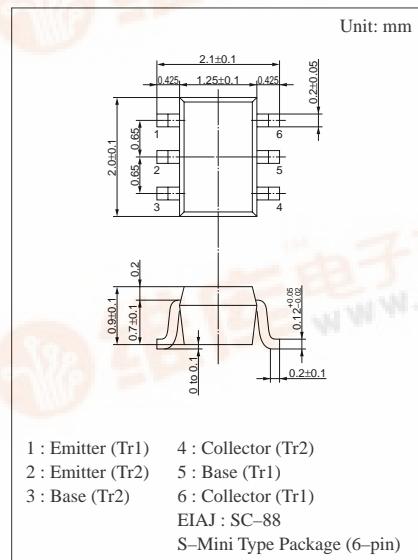
- Two elements incorporated into one package.
- Reduction of the mounting area and assembly cost by one half.

## ■ Basic Part Number of Element

- 2SC2404 × 2 elements

## ■ Absolute Maximum Ratings (Ta=25°C)

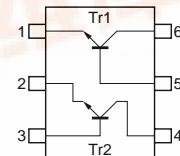
Parameter	Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V <sub>CBO</sub>	30
	Collector to emitter voltage	V <sub>CEO</sub>	20
	Emitter to base voltage	V <sub>EBO</sub>	3
	Collector current	I <sub>C</sub>	15
Overall	Total power dissipation	P <sub>T</sub>	150
	Junction temperature	T <sub>j</sub>	150
	Storage temperature	T <sub>stg</sub>	-55 to +150



1 : Emitter (Tr1) 4 : Collector (Tr2)  
2 : Emitter (Tr2) 5 : Base (Tr1)  
3 : Base (Tr2) 6 : Collector (Tr1)  
EIAJ : SC-88  
S-Mini Type Package (6-pin)

Marking Symbol: 7F

## Internal Connection



## ■ Electrical Characteristics (Ta=25°C)

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

\*1 Ratio between 2 elements

# Composite Transistors

XP6534

