

XP6534

Silicon NPN epitaxial planer transistor

For high-frequency amplification

■ Features

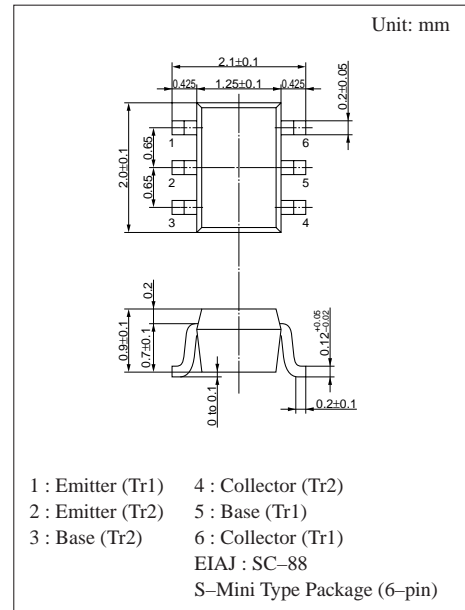
- Two elements incorporated into one package.
- Reduction of the mounting area and assembly cost by one half.

■ Basic Part Number of Element

- 2SC2404 × 2 elements

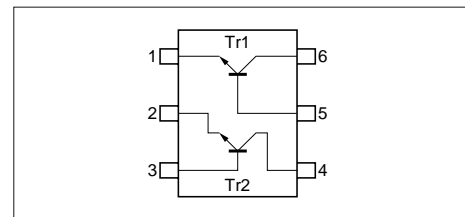
■ Absolute Maximum Ratings (Ta=25°C)

	Parameter	Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V_{CBO}	30	V
	Collector to emitter voltage	V_{CEO}	20	V
	Emitter to base voltage	V_{EBO}	3	V
	Collector current	I_C	15	mA
Overall	Total power dissipation	P_T	150	mW
	Junction temperature	T_j	150	°C
	Storage temperature	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}	$I_C = 10\mu A, I_E = 0$	30			V
Emitter to base voltage	V_{EBO}	$I_E = 10\mu A, I_C = 0$	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

