# XP06534 (XP6534)

### Silicon NPN epitaxial planar type

For high-frequency amplification

#### Features

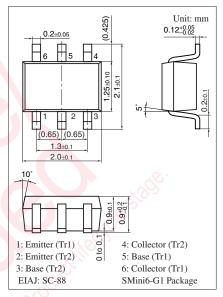
- Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half

#### Basic Part Number

•  $2SC2404 \times 2$ 

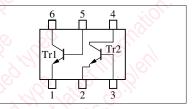
#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Symbol	Rating	Unit
V <sub>CBO</sub>	30	V
V <sub>CEO</sub>	20	v
V <sub>EBO</sub>	3	V
I <sub>C</sub>	15	mA
P <sub>T</sub>	150	mW
Tj	150	°C
T <sub>stg</sub>	-55 to +150	°C
	V <sub>CBO</sub> V <sub>CEO</sub> V <sub>EBO</sub> I <sub>C</sub> P <sub>T</sub> T <sub>j</sub>	$\begin{array}{c c c c c c c c c c c c c c c c c c c $



Marking Symbol: 7F

#### Internal Connection



#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

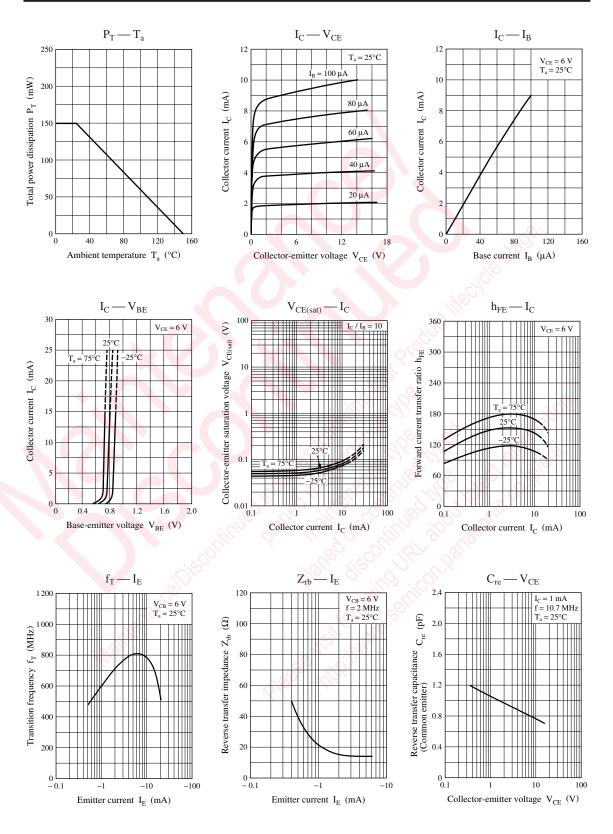
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V <sub>CBO</sub>	$I_{\rm C} = 10 \ \mu A, I_{\rm E} = 0$	30			V
Emitter-base voltage (Collector open)	V <sub>EBO</sub>	$I_{\rm E} = 10 \ \mu A, I_{\rm C} = 0$	3			V
Base-emitter voltage	V <sub>BE</sub>	$V_{CB} = 6 V, I_E = -1 mA$		720		mV
Forward current transfer ratio	h <sub>FE</sub>	$V_{CB} = 6 V, I_E = -1 mA$	40		250	_
Transition frequency	f <sub>T</sub>	$V_{CB} = 6 \text{ V}, I_E = -1 \text{ mA}, f = 200 \text{ MHz}$	450	650		MHz
Reverse transfer capacitance	C <sub>re</sub>	$V_{CB} = 6 V, I_E = -1 mA, f = 10.7 MHz$		0.8		pF
(Common emitter)						
Power gain	G <sub>P</sub>	$V_{CB} = 6 V, I_E = -1 mA, f = 100 MHz$		24		dB
Noise figure	NF	$V_{CB} = 6 V, I_E = -1 mA, f = 100 MHz$		3.3		dB

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.

### XP06534

## Panasonic



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