XP06534 (XP6534)

Silicon NPN epitaxial planar type

For high-frequency amplification

Features

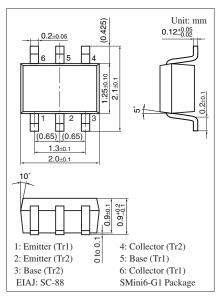
- Two elements incorporated into one package
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• 2SC2404 × 2

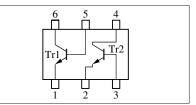
Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit				
Collector-base voltage (Emitter open)	V _{CBO}	30	V				
Collector-emitter voltage (Base open)	V _{CEO}	20	V				
Emitter-base voltage (Collector open)	V _{EBO}	3	V				
Collector current	I _C	15	mA				
Total power dissipation	P _T	150	mW				
Junction temperature	Tj	150	°C				
Storage temperature	T _{stg}	-55 to +150	°C				



Marking Symbol: 7F

Internal Connection

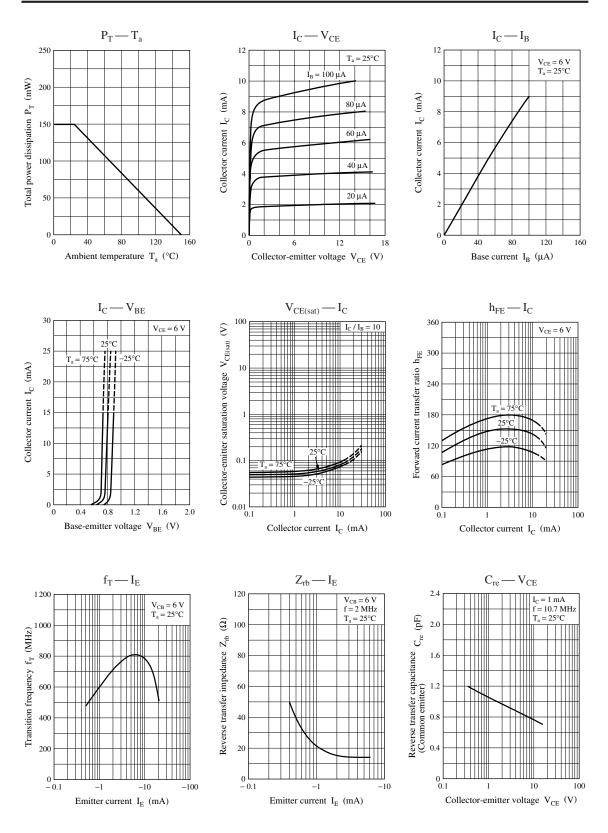


Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu A, \ I_{\rm E} = 0$	30			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu A, \ I_{\rm C} = 0$	3			V
Base-emitter voltage	V _{BE}	$V_{CB} = 6 V, I_E = -1 mA$		720		mV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

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

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.



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