2SC5419

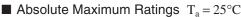
Silicon NPN triple diffusion planar type

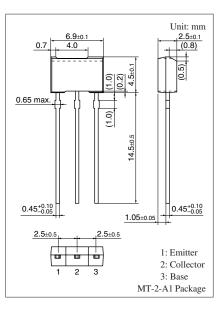
For low-frequency output amplification

Features

- High collector-emitter voltage (Base open) V_{CEO}
- High transition frequency f_T
- Allowing supply with the radial taping

Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	300	V			
Collector-emitter voltage (Base open)	V _{CEO}	300	V			
Emitter-base voltage (Collector open)	V _{EBO}	7	V			
Collector current	I _C	70	mA			
Peak collector current	I _{CP}	100	mA			
Collector power dissipation *	P _C	1	W			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			





Note) *: Copper plate at the collector is more than 1 cm² in area, 1.7 mm in thickness

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

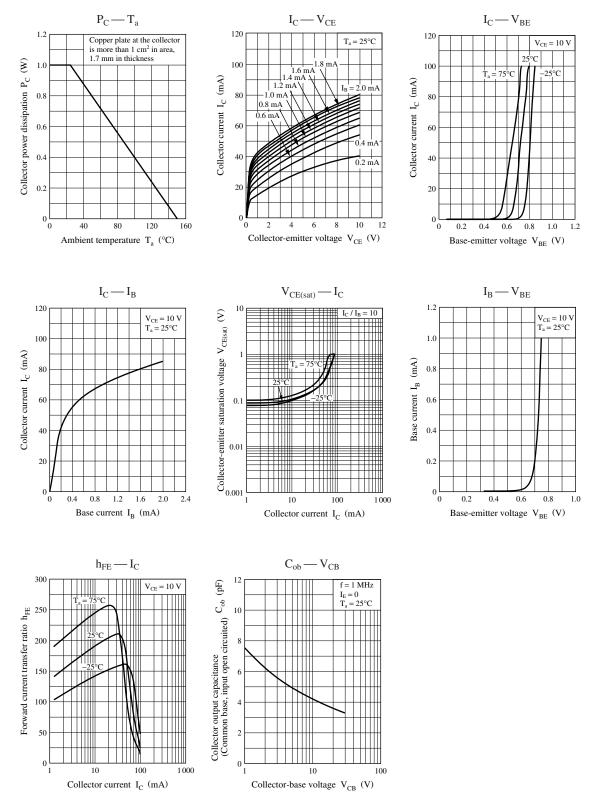
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{C} = 100 \ \mu A, I_{B} = 0$	300			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = 1 \ \mu A, \ I_C = 0$	7			V
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 120 \text{ V}, I_B = 0$			1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	30		220	—
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 50 \text{ mA}, I_{\rm B} = 5 \text{ mA}$			1.2	V
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -10 \text{ mA}, f = 200 \text{ MHz}$	50			MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			10	pF
(Common base, input open circuited)						

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	Р	Q	R
h _{FE}	30 to 100	60 to 150	100 to 220

Panasonic



Collector-base voltage V_{CB} (V)

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