2SA0719, 2SA0720 (2SA719, 2SA720)

Silicon PNP epitaxial planar type



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

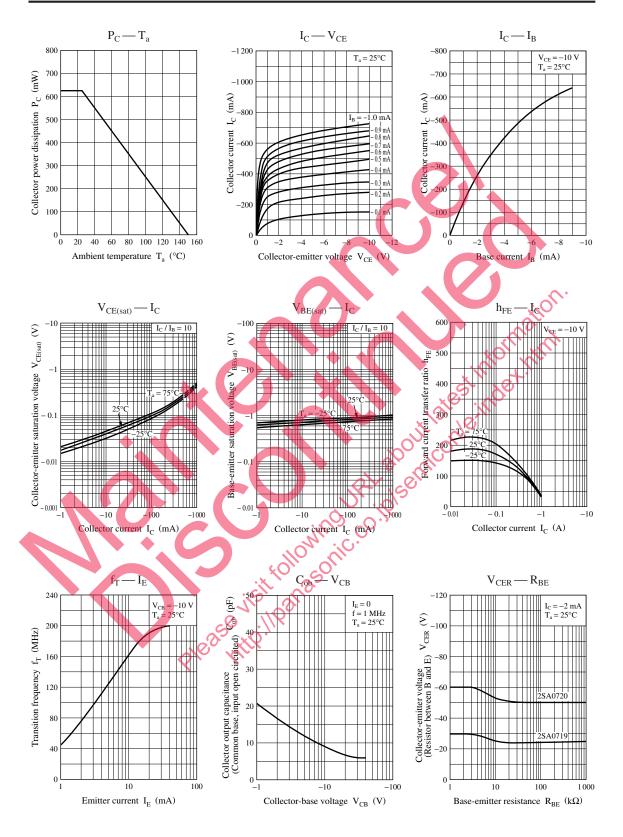
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage 2SA0719	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-30			V
(Emitter open) 2SA0720		NOW NO.	-60			
Collector-emitter voltage 2SA0719	V _{CEO}	$I_{C} = 10 \text{ mA} \cdot I_{B} = 0$	-25			V
(Base open) 2SA0720		it as	-50			
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	ICBO	$V_{GB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	
A No	h _{FE2}	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = -300 \text{ mA}, I_{B} = -30 \text{ mA}$		- 0.35	- 0.60	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{C} = -300 \text{ mA}, I_{B} = -30 \text{ mA}$		-1.1	-1.5	V
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF
(Common base, input open circuited)						

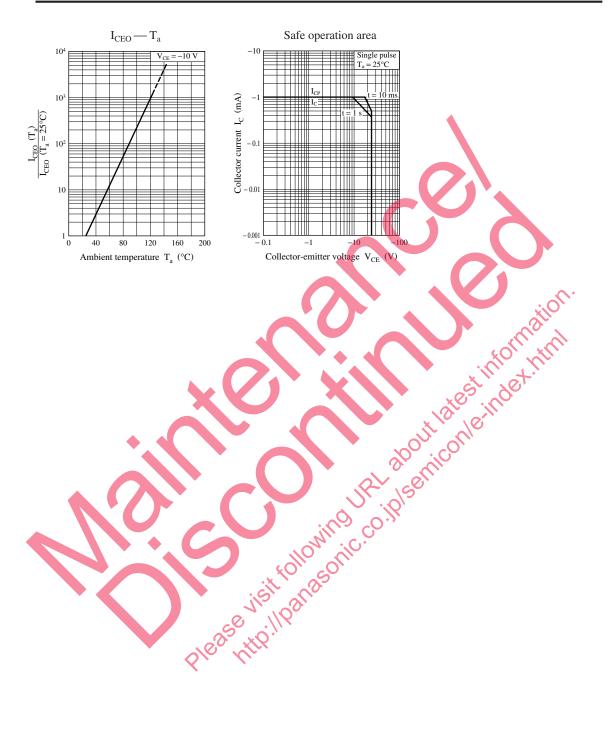
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

Rank	Q	R	S
$h_{\rm FE1}$	85 to 170	120 to 240	170 to 340

Note) The part numbers in the parenthesis show conventional part number.





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