Transistors

Panasonic

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

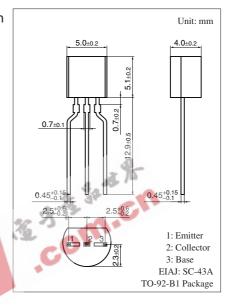
Silicon PNP epitaxial planar type

For low-frequency power amplification and driver amplification Complementary to 2SC1317, 2SC1318

Features

• Complementary pair with 2SC1317 and 2SC1318

Absolute Maximum Ratings $T_a = 25^{\circ}C$							
Parameter	Symbol	Rating	Unit				
Collector-base voltage	2SA0719	V _{CBO}	-30	V			
(Emitter open)	2SA0720		-60				
Collector-emitter voltage	2SA0719	V _{CEO}	-25	V			
(Base open)	2SA0720		-50				
Emitter-base voltage (Coll	V _{EBO}	-5	V				
Collector current	I _C	-500	mA				
Peak collector current	I _{CP}	-1	A				
Collector power dissipatio	P _C	625	mW				
Junction temperature	Tj	150	°C				
Storage temperature	T _{stg}	-55 to +150	°C				



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

Parameter		Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage	2SA0719	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-30			V
(Emitter open)	2SA0720			-60			
Collector-emitter voltage	2SA0719	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-25			V
(Base open)	2SA0720	1		-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)		I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Forward current transfer ratio		h _{FE1} *	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	_
		h _{FE2}	$V_{CE} = -10 \text{ V}, I_C = -500 \text{ mA}$	40			—
Collector-emitter saturation	voltage	V _{CE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		- 0.35	- 0.60	V
Base-emitter saturation voltage		V _{BE(sat)}	$I_{\rm C} = -300 \text{ mA}, I_{\rm B} = -30 \text{ mA}$		-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.

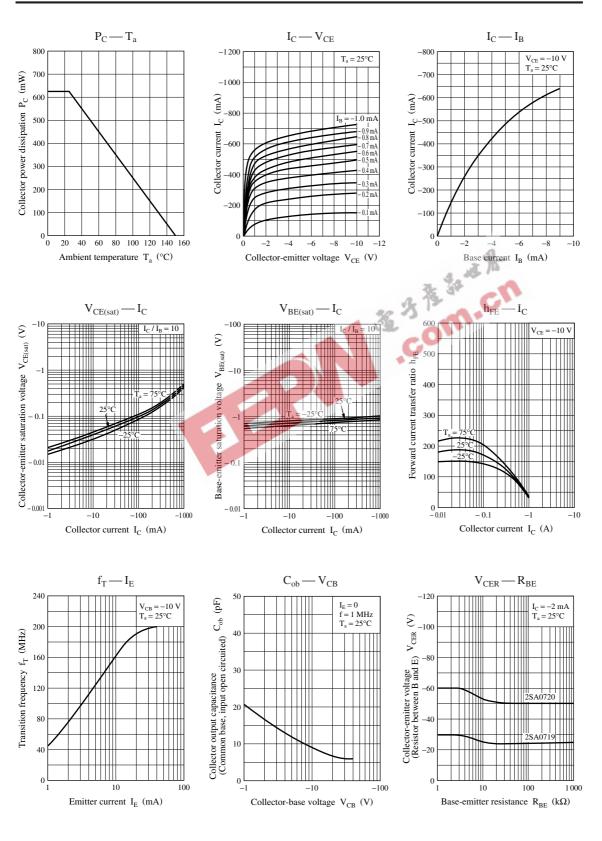
2. *: Rank classification

Rank	Q	R	S
h _{FE1}	85 to 170	120 to 240	170 to 340

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

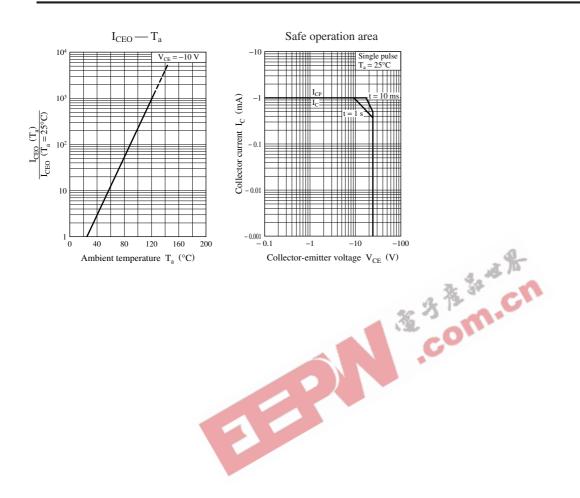
2SA0719, 2SA0720

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2SA0719, 2SA0720



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