Transistors

2SA0719

Silicon PNP epitaxial planar type

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

■ Features

• Complementary pair with 2SC1317

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-30	V	
Collector-emitter voltage (Base open)	V _{CEO}	-25	V	
Emitter-base voltage (Collector open)	V_{EBO}	-5	V	
Collector current	I_{C}	-500	mA	
Peak collector current	I _{CP}	-1	A	
Collector power dissipation	P _C	625	mW	
Junction temperature	T _j	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

• Code TO-92B-B1

- Pin Name
 - 1. Emitter
 - 2. Collector
 - 3. Base

■ Electrical Characteristics $T_a = 25$ °C±3°C

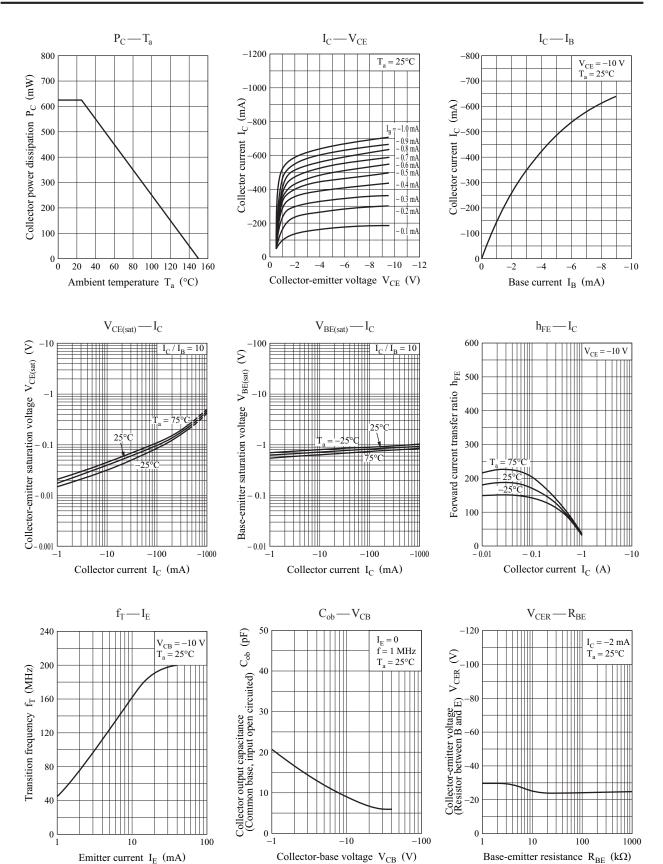
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-30			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-25			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_{\rm E} = -10 \mu\text{A}, I_{\rm C} = 0$	-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)}	$I_C = -300 \text{ mA}, I_B = -30 \text{ mA}$		-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 (Common base, input open circuited)	C _{re}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		6	15	pF

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

2. *: Rank classification

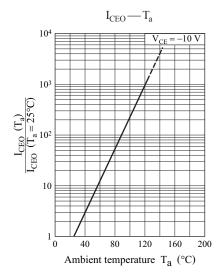
Rank	Q	R	S
$h_{\rm FE1}$	85 to 170	120 to 240	170 to 340

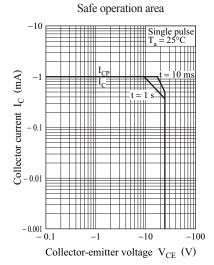
2SA0719 Panasonic



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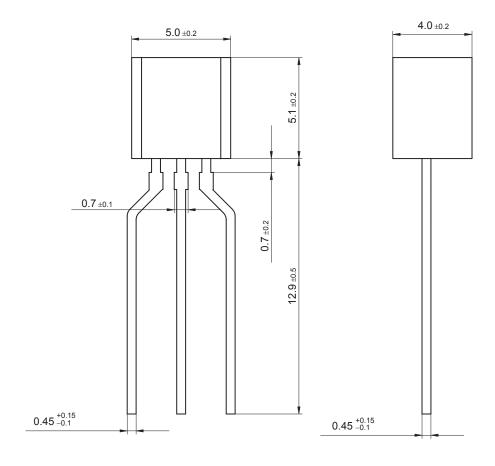
Panasonic 2SA0719

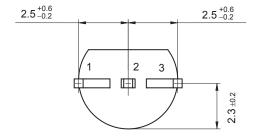




2SA0719 Panasonic

TO-92-B1 Unit: mm





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