2SA0720

Silicon PNP epitaxial planar type

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

Features

• Complementary pair with 2SC1318

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-60	V	
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	
Emitter-base voltage (Collector open)	ector open) V _{EBO} -		V	
Collector current	I _C	-500	mA	
Peak collector current	I _{CP}	-1	А	
Collector power dissipation	P _C	625	mW	
Junction temperature	Tj	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 $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu {\rm A}, I_{\rm E} = 0$	-60			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-50			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu {\rm A}, I_{\rm C} = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -20 \text{ V}, I_E = 0$			- 0.1	μΑ
Former and an and the second second second	h _{FE1} *	$V_{CE} = -10 \text{ V}, I_C = -150 \text{ mA}$	85		340	
Forward current transfer ratio	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	\mathbf{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

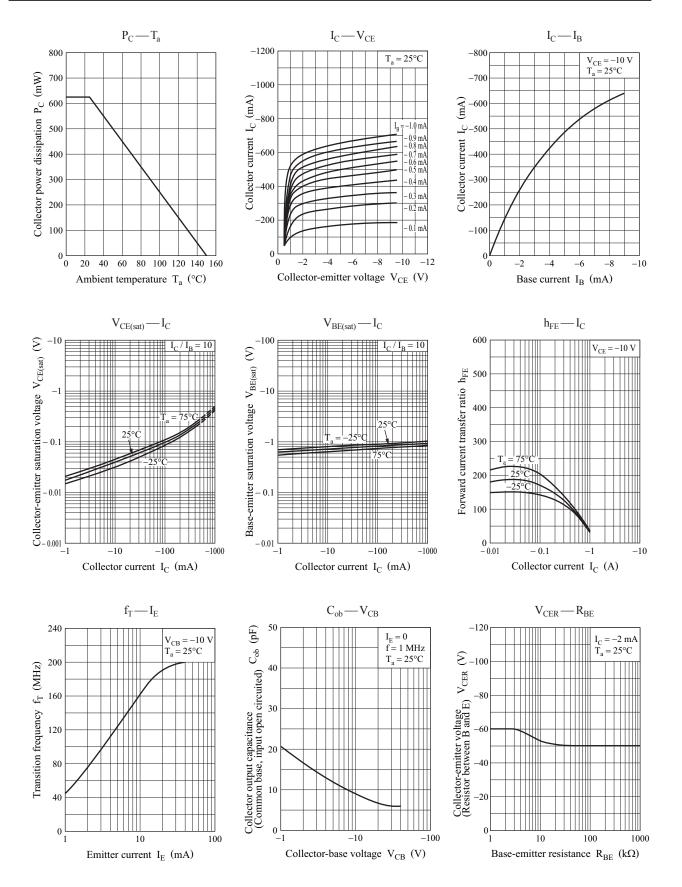
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

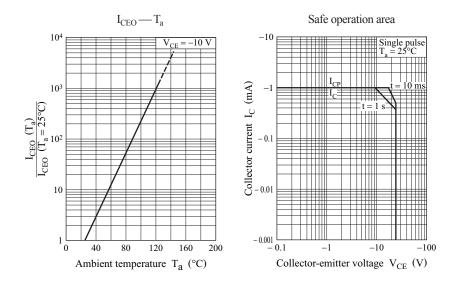
Rank	Q	R	S
$h_{\rm FE1}$	85 to 170	120 to 240	170 to 340

2SA0720

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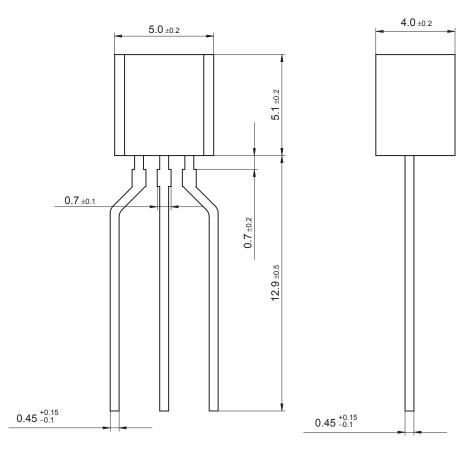
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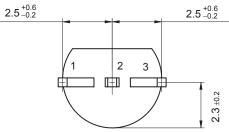


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TO-92-B1

Unit: mm





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