2SA0900 (2SA900)

Silicon PNP epitaxial planar type

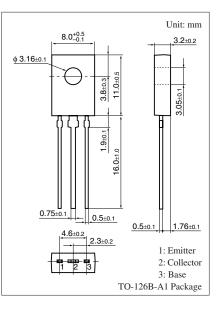
For low-frequency Power amplification Complementary to 2SC1868

Features

- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- TO-126B package which requires no insulation plate for installation to the heat sink

Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	-20	V			
Collector-emitter voltage (Base open)	V _{CEO}	-18	V			
Emitter-base voltage (Collector open)	V _{EBO}	-5	V			
Collector current	I _C	-1	А			
Peak collector current	I _{CP}	-2	А			
Collector power dissipation	P _C	1.2	W			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			





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

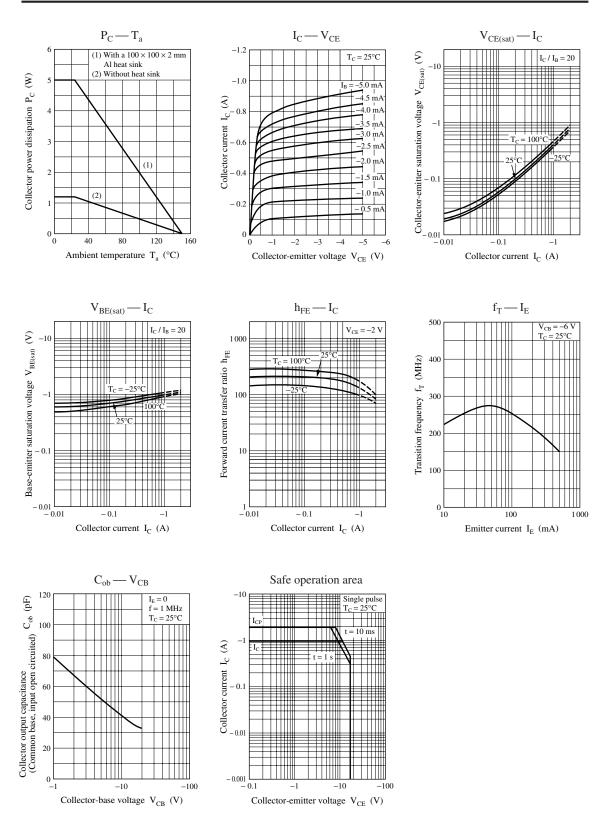
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-20			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-18			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -10 \ \mu A, I_C = 0$	-5			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			-1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -18 \text{ V}, I_B = 0$			-10	μΑ
Forward current transfer ratio	h _{FE1} *	$V_{CE} = -2 V, I_C = -500 mA$	130		280	
	h _{FE2}	$V_{CE} = -2 V, I_C = -1.5 A$	50			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -1$ A, $I_{\rm B} = -50$ mA			- 0.5	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_{\rm C} = -500 \text{ mA}, I_{\rm B} = -50 \text{ mA}$			-1.2	V
Transition frequency	f _T	$V_{CB} = -6 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -6 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		40		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	R	S
h _{FE1}	130 to 210	180 to 280

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



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