2SA1858

Silicon PNP epitaxial planar type

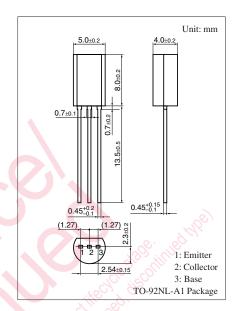
For low-frequency power amplification

■ Features

ullet High collector-emitter voltage (Base open) V_{CEO}

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-300	V	
Collector-emitter voltage (Base open)	V _{CEO}	-300	V	
Emitter-base voltage (Collector open)	V_{EBO}	-5	V	
Collector current	I_{C}	-70	mA	
Peak collector current	I_{CP}	-100	mA	
Collector power dissipation	P _C	1	W	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	



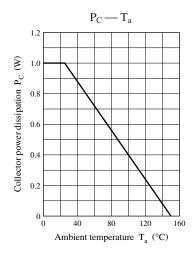
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

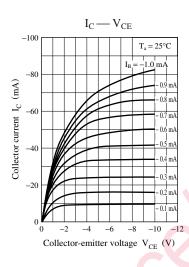
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -100 \mu\text{A}, I_{\rm B} = 0$	-300			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -1 \mu A, I_C = 0$	-5			V
Forward current transfer ratio *	h _{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	30		150	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -10 \text{ mA}, I_B = -1 \text{ mA}$			- 0.6	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 10 \text{ mA}, f = 200 \text{ MHz}$	50			MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		7		pF
(Common base, input open circuited)	COII.					

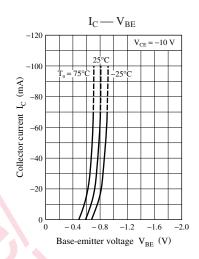
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

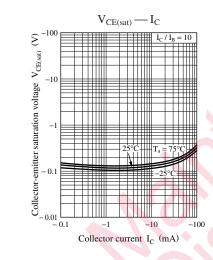
2. *: Rank classification

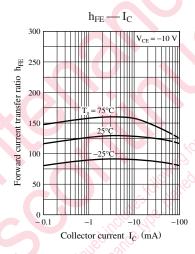
Rank	Р	Q		
h_{FE}	30 to 100	60 to 150		

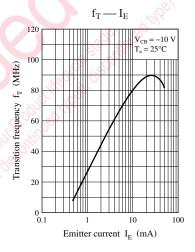


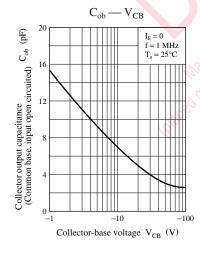


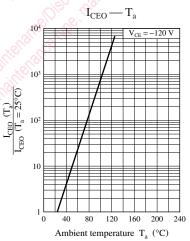












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