2SB0873 (2SB873)

Silicon PNP epitaxial planar type

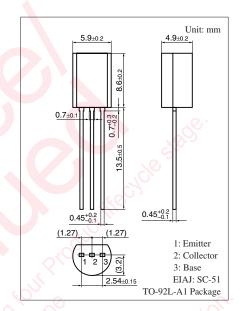
For low-frequency power amplification For DC-DC converter For stroboscope

■ Features

- Low collector-emitter saturation voltage V_{CE(sat)}
- Large collector current I_C

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V_{CBO}	-30	V	
Collector-emitter voltage (Base open)	V _{CEO}	-20	V	
Emitter-base voltage (Collector open)	V_{EBO}	-7	V	
Collector current	I_{C}	-5	A	
Peak collector current	I _{CP}	-10	A	
Collector power dissipation	P _C	1	W	
Junction temperature	Tj	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}	$I_C = -1 \text{ mA}, I_B = 0$	-20			V
Emitter-base voltage (Collector open)	V_{EBO}	$I_E = -10 \mu A, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			-100	nA
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -5 \text{ V}, I_C = 0$			-100	nA
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 \text{ V}, I_{C} = -2 \text{ A}$	90		625	_
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -3 \text{ A}, I_B = -0.1 \text{ A}$			-1	V
Transition frequency	f_T	$V_{CB} = -6 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		120		MHz
Collector output capacitance (Common-emitter reverse transfer)	C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			85	pF

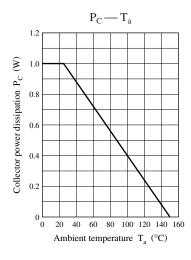
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

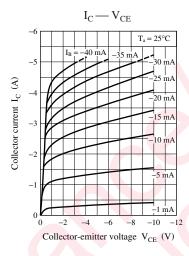
2. *1: Pulse measurement

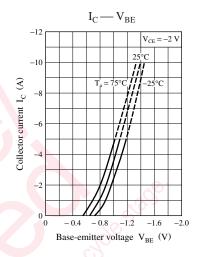
*2: Rank classification

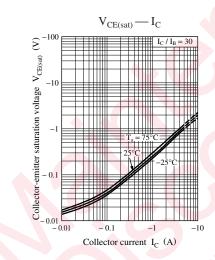
Rank	Р	Q	R
h _{FE}	90 to 135	120 to 205	180 to 625

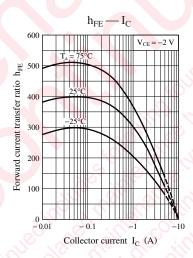
Note) The part number in the parenthesis shows conventional part number.

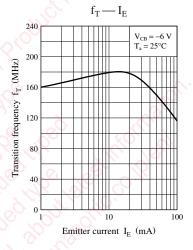


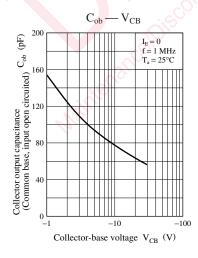


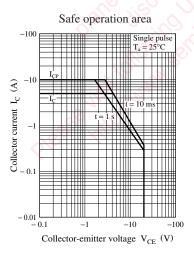












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