2SB0873 (2SB873)

Silicon PNP epitaxial planar type

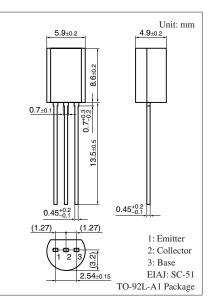
For low-frequency power amplification For DC-DC converter For stroboscope

Features

- \bullet Low collector-emitter saturation voltage $V_{CE(\text{sat})}$
- \bullet Large collector current I_{C}

Absolute Maximum Hatings $T_a = 25$ 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	А			
Peak collector current	I _{CP}	-10	А			
Collector power dissipation	P _C	1	W			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			

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



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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 {\rm mA}, I_{\rm B} = 0$	-20			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	-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}	$V_{EB} = -5 V, I_C = 0$			-100	nA
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 V, I_C = -2 A$	90		625	
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_C = -3 A, I_B = -0.1 A$			-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	C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$			85	pF
(Common-emitter reverse transfer)						

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

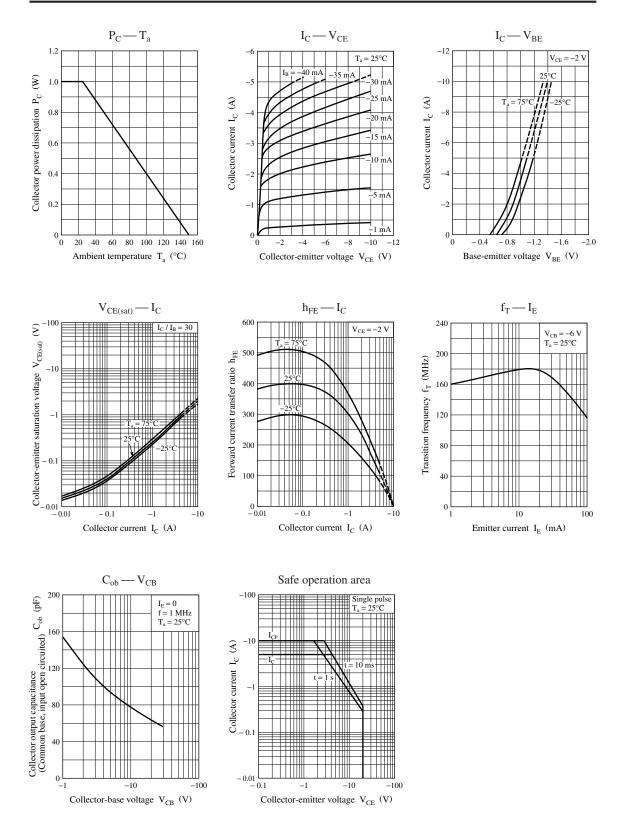
2. *1: Pulse measurement

*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.

Panasonic



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