2SB0873 (2SB873)

Silicon PNP epitaxial planer type

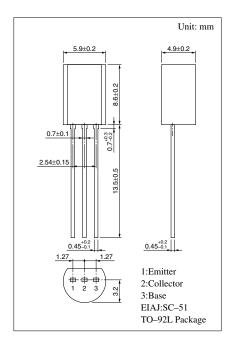
For low-frequency power amplification For DC-DC converter For stroboscope

Features

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

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-20	V
Emitter to base voltage	$V_{\rm EBO}$	-7	V
Peak collector current	I_{CP}	-10	A
Collector current	I_{C}	-5	A
Collector power dissipation	P_{C}	1	W
Junction temperature	T_{j}	150	°C
Storage temperature	T_{stg}	−55 ~ +150	°C



Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions min typ		max	Unit	
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_E = 0$			-100	nA
Emitter cutoff current	I_{EBO}	$V_{EB} = -5V, I_C = 0$			-100	nA
Collector to emitter voltage	V _{CEO}	$I_C = -1 \text{mA}, I_B = 0$	-20			V
Emitter to base voltage	V _{EBO}	$I_{\rm E} = -10\mu A, I_{\rm C} = 0$	-7			V
Forward current transfer ratio	h _{FE} *1	$V_{CE} = -2V, I_C = -2A^{*2}$	90		625	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -3A, I_B = -0.1A^{*2}$			-1	V
Transition frequency	f_T	$V_{CB} = -6V$, $I_E = 50$ mA, $f = 200$ MHz		120		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -20V, I_E = 0, f = 1MHz$			85	pF

^{*2} Pulse measurement

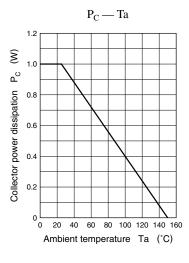
^{*1}hFE Rank classification

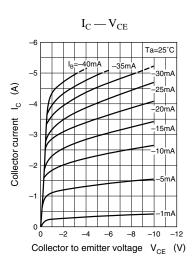
Rank	P	Q	R
h_{FE}	90 ~ 135	120 ~ 205	180 ~ 625

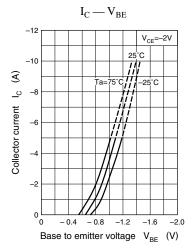
Note.) The Part number in the Parenthesis shows conventional part number.

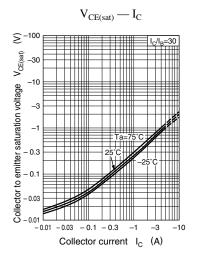
Panasonic 1

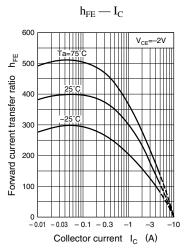
Transistor 2SB0873

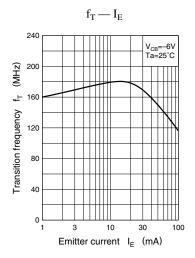


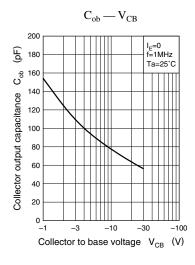




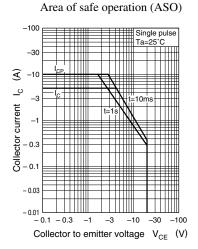








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