2SB0976 (2SB976)

Silicon PNP epitaxial planar type

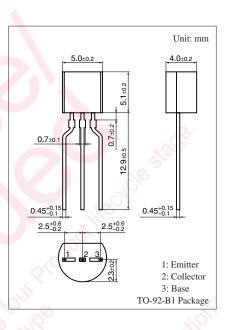
For low-frequency output amplification For DC-DC converter For stroboscope

Features

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

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

*			
Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V _{CBO}	-27	V
Collector-emitter voltage (Base open)	V _{CEO}	-18	V
Emitter-base voltage (Collector open)	V _{EBO}	-7	V
Collector current	I _C	-5	А
Peak collector current	I _{CP}	-8	А
Collector power dissipation	P _C	0.75	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-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}	$I_{\rm E} = -10 \ \mu A, \ I_{\rm C} = 0$	-7	25		V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$	0	^p	-100	nA
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$	C.X		-1	μΑ
Forward current transfer ratio *1, 2	h _{FE}	$V_{CE} = -2 V, I_C = -2 A$	125		625	
Collector-emitter saturation voltage *1	V _{CE(sat)}	$I_{\rm C} = -3$ A, $I_{\rm B} = -0.1$ A		- 0.4	-1.0	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 base, input open circuited)	C _{ob}	$V_{CB} = -20 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		60		pF

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

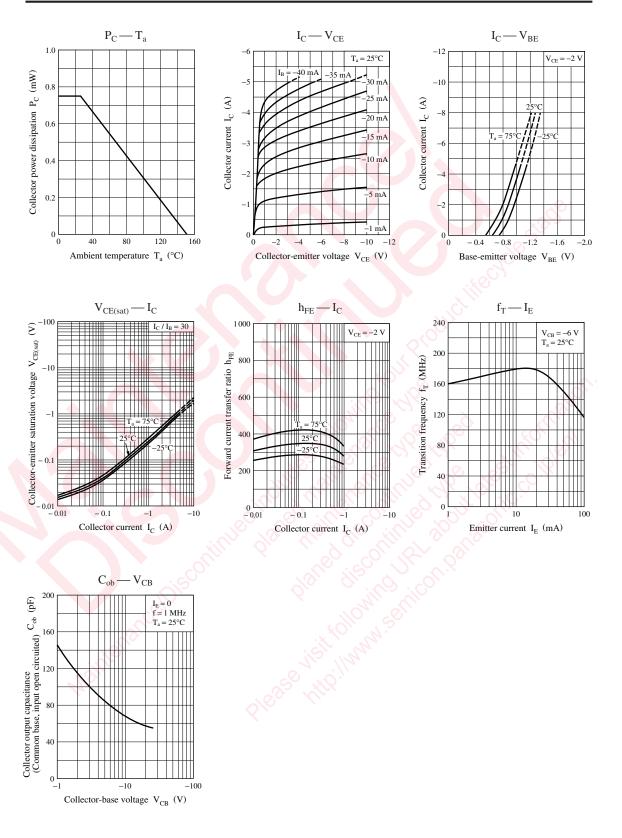
2. *1: Pulse measurement

*2: Rank classification

Rank	Q	R
$h_{\rm FE}$	125 to 205	180 to 625

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

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