2SB0932 (2SB932)

Silicon PNP epitaxial planar type

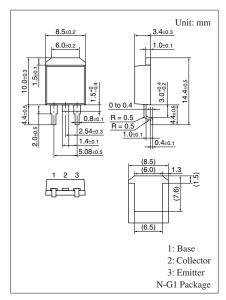
For Power switching

Features

- \bullet Low collector-emitter saturation voltage $V_{\mbox{CE(sat)}}$
- \bullet Satisfactory linearity of forward current transfer ratio h_{FE}
- \bullet Large collector current I_{C}
- N type package enabling direct soldering of the radiating fin to the printed circuit board, etc. of small electronic equipment.

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

Parameter	Symbol	Rating	Unit	
Collector-base voltage (En	V _{CBO}	-130	V	
Collector-emitter voltage	V _{CEO}	-80	V	
Emitter-base voltage (Col	V _{EBO}	-7	V	
Collector current	I _C	-4	А	
Peak collector current	I _{CP}	-8	А	
Collector power dissipation		P _C	35	W
	$T_a = 25^{\circ}C$		1.3	
Junction temperature		Tj	150	°C
Storage temperature		T _{stg}	-55 to +150	°C



Note) Self-supported type package is also prepared.

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

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = 0$	-80			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -100 \text{ V}, I_E = 0$			-10	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -5 V, I_C = 0$			-50	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = -2 V, I_C = -0.1 A$	45			_
	h _{FE2} *	$V_{CE} = -2 V, I_C = -1 A$	90		260	
Base-emitter voltage	V _{BE(sat)}	$I_C = -3 A, I_B = -0.15 A$			-1.5	V
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -3 A, I_B = -0.15 A$			- 0.5	V
Transition frequency	f _T	$V_{CE} = -10 \text{ V}, I_C = -0.5 \text{ A}, f = 10 \text{ MHz}$		30		MHz
Turn-on time	t _{on}	$I_{\rm C} = -1 {\rm A},$		0.15		μs
Storage time	t _{stg}	$I_{B1} = -0.1 \text{ A}, I_{B2} = 0.1 \text{ A}$		0.8		μs
Fall time	t _f	$V_{CC} = -50 \text{ V}$		0.15		μs

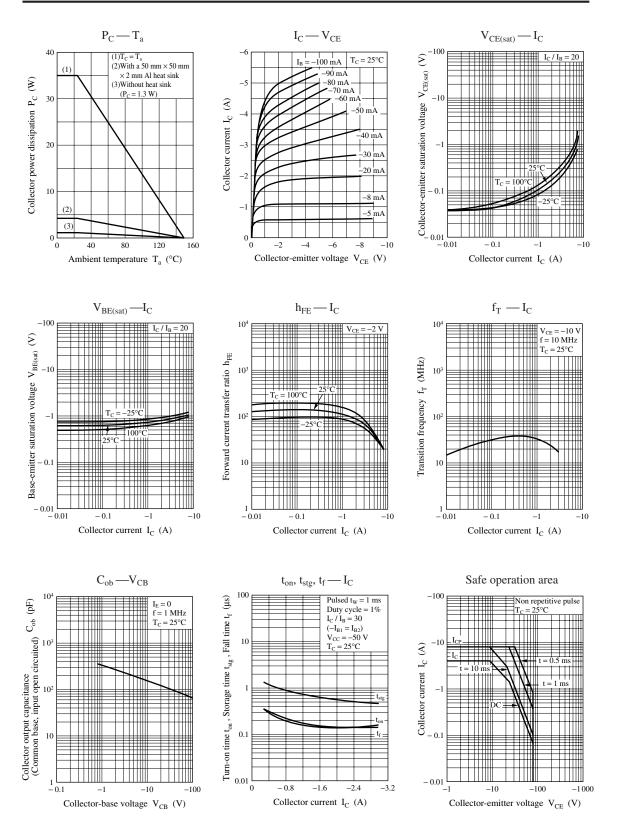
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

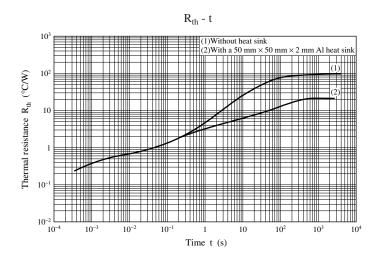
2. *: Rank classification

Rank	Q	Р		
h _{FE2}	90 to 180	130 to 260		

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

Panasonic





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