2SB1299

Silicon PNP epitaxial planar type

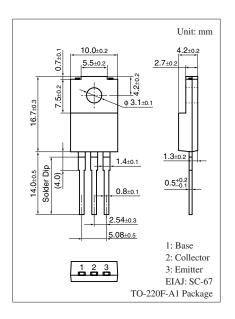
For power amplification

■ Features

- High forward current transfer ratio h_{FE}
- Satisfactory linearity of forward current transfer ratio h_{FE}
- Full-pack package which can be installed to the heat sink with one screw.

■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (En	V _{CBO}	-60	V	
Collector-emitter voltage	V _{CEO}	-60	V	
Emitter-base voltage (Collector open)		V _{EBO}	-6	V
Collector current	I_C	-3	A	
Peak collector current	I_{CP}	-6	A	
Base current		I_B	-1	A
Collector power	$T_C = 25^{\circ}C$	P_{C}	40	W
dissipation			2	
Junction temperature	T _j	150	°C	
Storage temperature	T_{stg}	-55 to +150	°C	



■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

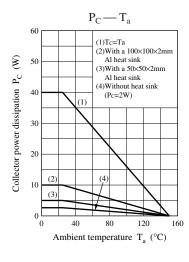
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-emitter voltage (Base open)	V _{CEO}	$I_C = -25 \text{ mA}, I_B = 0$	-60			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -60 \text{ V}, I_E = 0$			-100	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -40 \text{ V}, I_{B} = 0$			-100	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$			-100	μΑ
Forward current transfer ratio *	h_{FE}	$V_{CE} = -4 \text{ V}, I_{C} = -0.5 \text{ A}$	300		700	_
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -2 A, I_B = -0.05 A$			-1	V
Transition frequency	f_T	$V_{CE} = -12 \text{ V}, I_C = -0.2 \text{ A}, f = 10 \text{ MHz}$		30		MHz

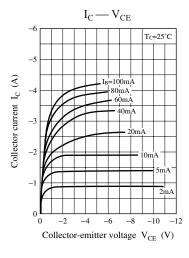
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

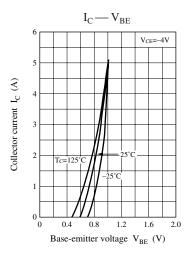
2. *: Rank classification

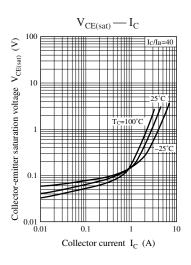
Rank	Q	Р
h_{FE}	300 to 500	400 to 700

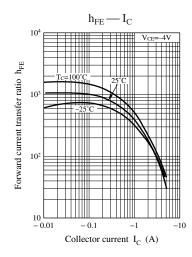
Panasonic

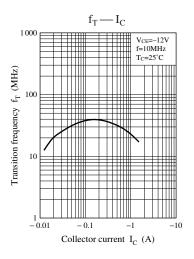


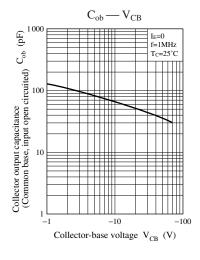


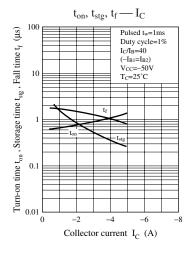


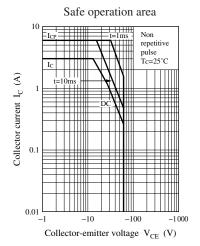




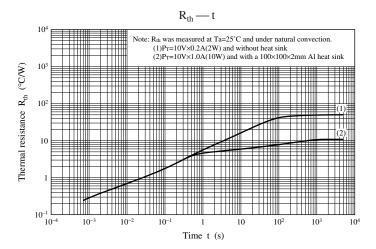








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