2SB1063

Silicon PNP triple diffusion planar type

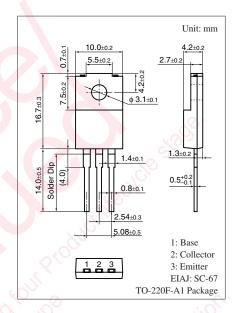
For high power amplification Complementary to 2SD1499

■ Features

- Extremely satisfactory linearity of the forward current transfer ratio h_{FE}
- Wide safe operation area
- High transition frequency f_T
- Full-pack package which can be installed to the heat sink with one screw

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

Parameter	Symbol	Rating	Unit
Collector-base voltage (Emitter open)	V_{CBO}	-100	V
Collector-emitter voltage (Base open)	V_{CEO}	-100	V
Emitter-base voltage (Collector open)	$V_{\rm EBO}$	-5	V
Collector current	I_{C}	-5	A
Peak collector current	I _{CP}	-8	A
Collector power dissipation	P _C	40	W
$T_a = 25^{\circ}C$		2.0	40
Junction temperature	T _j	150	o °C
Storage temperature	T_{stg}	-55 to +150	°C



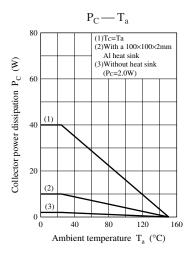
■ Electrical Characteristics $T_C = 25^{\circ}C \pm 3^{\circ}C$

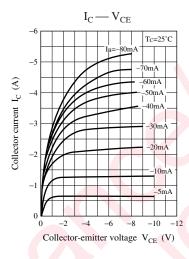
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Base-emitter voltage	V_{BE}	$V_{CE} = -5 \text{ V}, I_{C} = -3 \text{ A}$	1.9		-1.8	V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -100 \text{ V}, I_E = 0$			-50	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -3 \text{ V}, I_{C} = 0$			-50	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = -5 \text{ V}, I_{C} = -20 \text{ mA}$	20			_
	h _{FE2} *	$V_{CE} = -5 \text{ V}, I_{C} = -1 \text{ A}$	40		200	
	h _{FE3}	$V_{CE} = -5 \text{ V}, I_{C} = -3 \text{ A}$	20			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -3 \text{ A}, I_B = -0.3 \text{ A}$			-2	V
Transition frequency	f_T	$V_{CE} = -5 \text{ V}, I_{C} = -0.5 \text{ A}, f = 1 \text{ MHz}$		20		MHz
Collector output capacitance	Cob	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		170		pF
(Common base, input open circuited)						

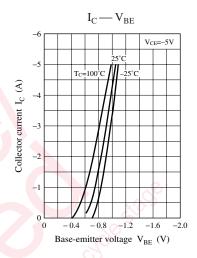
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

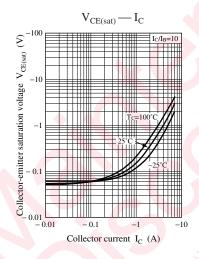
2. *: Rank classification

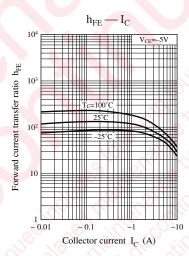
Rank	R	Q	Р
h_{FE2}	40 to 80	60 to 120	100 to 200

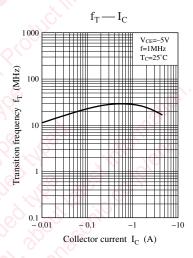


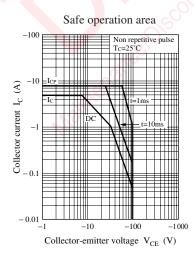


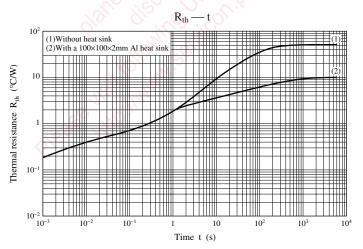












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