2SB1054

Silicon PNP triple diffusion planar type

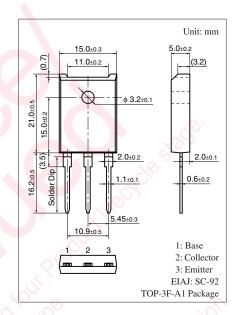
For high power amplification Complementary to 2SD1485

■ Features

- ullet Excellent collector current I_C characteristics of 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 $T_C = 25$ °C

Symbol	Rating	Unit
V _{CBO}	-100	V
V _{CEO}	-100	V
V_{EBO}	-5	V
I _C	-5	A
I_{CP}	-8	A
P _C	60	W
	3	5 .0
T _j	150	°C
$T_{\rm stg}$	-55 to +150	°C
	$\begin{array}{c} V_{CBO} \\ V_{CEO} \\ V_{EBO} \\ I_{C} \\ I_{CP} \\ P_{C} \\ \end{array}$	V _{CBO} -100 V _{CEO} -100 V _{EBO} -5 I _C -5 I _{CP} -8 P _C 60 3 T _j 150



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

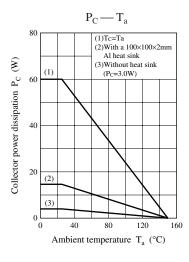
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Base-emitter voltage	V _{BE}	$V_{CE} = -5 \text{ V}, I_{C} = -3 \text{ A}$	1.		-1.8	V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -100 \text{ V}, I_E = 0$			-50	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -3 \text{ V}, I_C = 0$			-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	
dille	h _{FE3}	$V_{CE} = -5 \text{ V}, I_{C} = -3 \text{ A}$	20			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -3 \text{ A}, I_B = -0.3 \text{ A}$			-2.0	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 (Common base, input open circuited)	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		170		pF

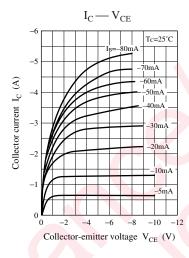
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

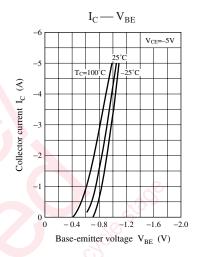
2. *: Rank classification

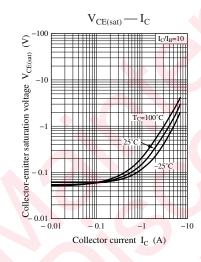
Rank	R	Q	Р
h _{FE2}	40 to 80	60 to 120	100 to 200

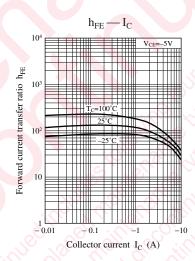
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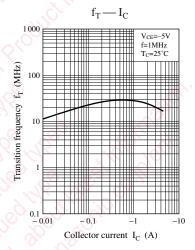


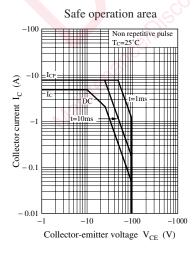


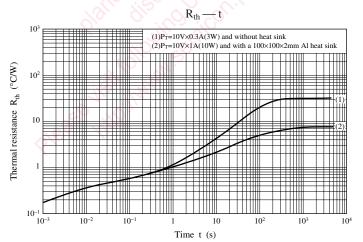












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