2SD2064

Silicon NPN triple diffusion planar type

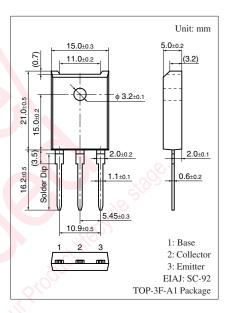
For high power amplification Complementary to 2SB1371

Features

- \bullet Excellent collector current I_C characteristics of forward current transfer ratio h_{FE}
- Wide safe operation area
- \bullet High transition frequency $f_{\rm T}$
- Full-pcak 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}	120	v
Collector-emitter voltage (Base open)	V _{CEO}	120	V
Emitter-base voltage (Collector open)	V _{EBO}	5	V
Collector current	I _C	6	А
Peak collector current	I _{CP}	10	A
Collector power dissipation	P _C	70	W
$T_a = 25^{\circ}C$		3	5 .0
Junction temperature	Tj	150	°C
Storage temperature	T _{stg}	-55 to +150	°C



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

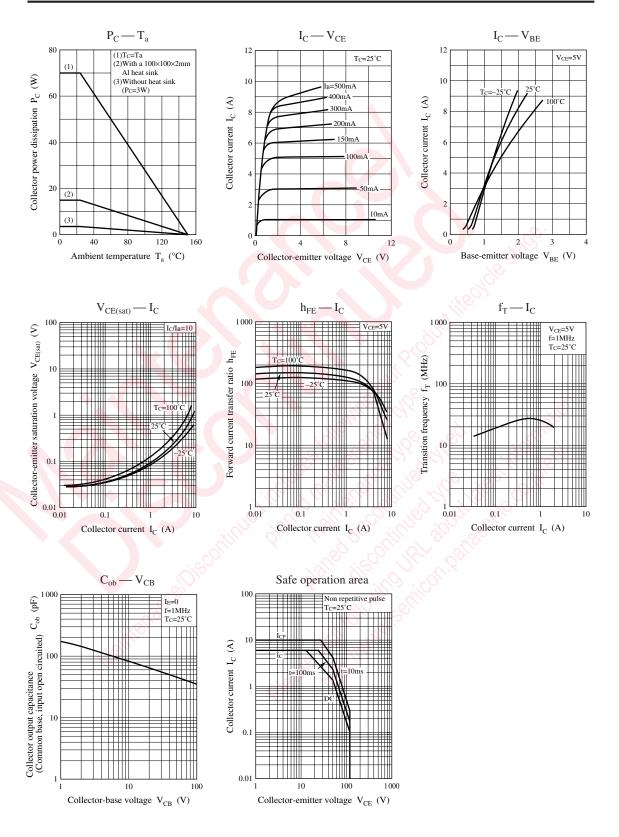
Parameter	Symbol	Conditions	Min	Тур	Мах	Unit
Base-emitter voltage	V _{BE}	$V_{CE} = 5 V, I_C = 4 A$			1.8	V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{\rm CB} = 120 \text{ V}, \text{ I}_{\rm E} = 0$			50	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = 3 V, I_C = 0$			50	μΑ
Forward current transfer ratio	h _{FE1}	$V_{CE} = 5 \text{ V}, I_C = 20 \text{ mA}$	20			
	h _{FE2} *	$V_{CE} = 5 V, I_C = 1 A$	60		200	
	h _{FE3}	$V_{CE} = 5 V, I_C = 4 A$	20			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{C} = 4 A, I_{B} = 0.4 A$			2.0	V
Transition frequency	f _T	$V_{CE} = 5 V, I_C = 0.5 A, f = 1 MHz$ 20		20		MHz
Collector output capacitance	C _{ob}	$V_{CB} = 10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		80		pF
(Common base, input open circuited)						

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

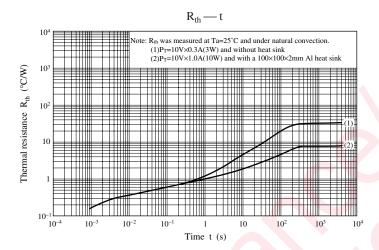
2. *: Rank classification

Rank	Q	S	Р
h _{FE2}	60 to 120	80 to 160	100 to 200

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