

2SB1372

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Silicon PNP triple diffusion planar type

For high power amplification
Complementary to 2SD2065

Features

- Satisfactory foward current transfer ratio h_{FE} vs. collector current I_C characteristics
- Wide area of safe operation (ASO)
- 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)

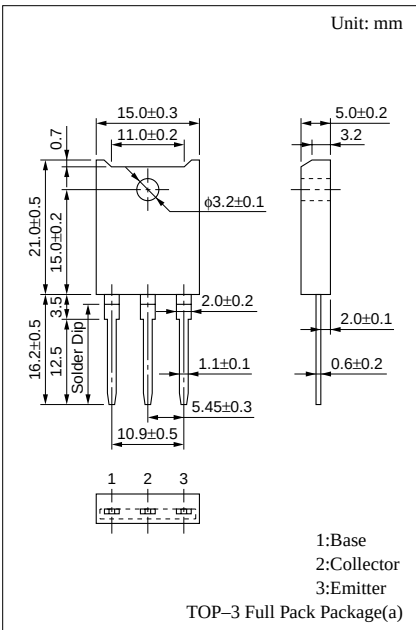
Parameter	Symbol	Ratings	Unit
Collector to base voltage	V _{CBO}	−140	V
Collector to emitter voltage	V _{CEO}	−140	V
Emitter to base voltage	V _{EBO}	−5	V
Peak collector current	I _{CP}	−12	A
Collector current	I _C	−7	A
Collector power dissipation	P _C	T _C =25°C	W
		Ta=25°C	
Junction temperature	T _j	150	°C
Storage temperature	T _{stg}	−55 to +150	°C

Electrical Characteristics (T_C=25°C)

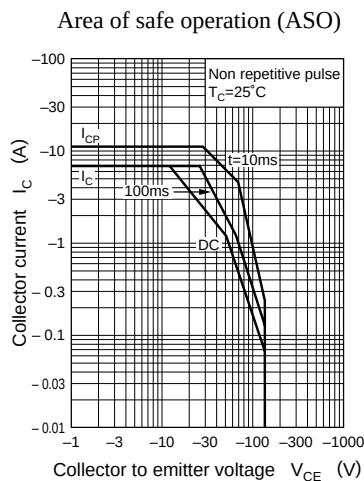
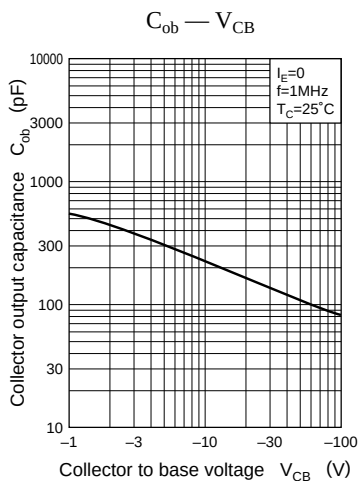
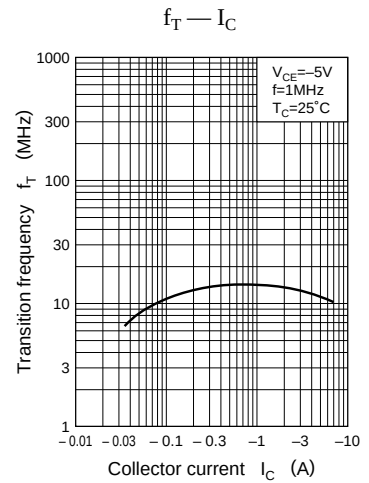
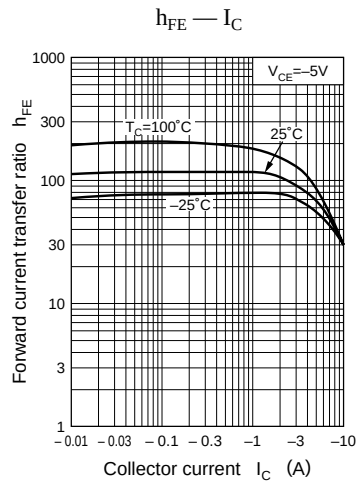
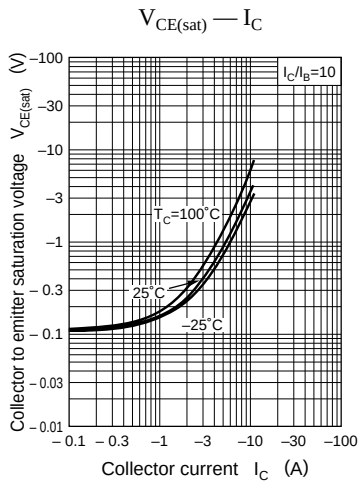
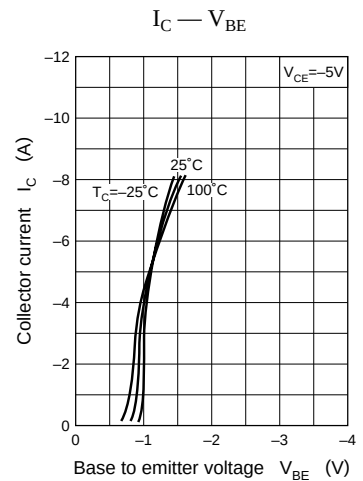
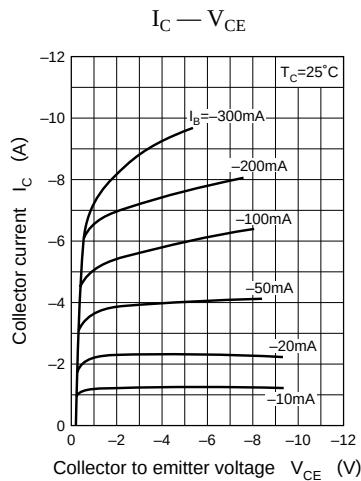
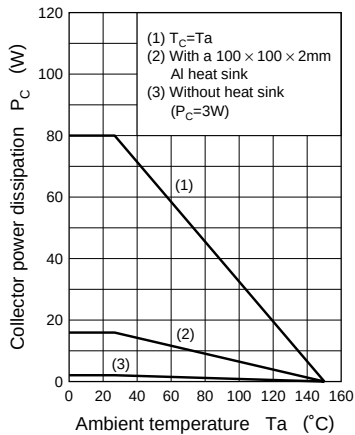
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I _{CBO}	V _{CB} = −140V, I _E = 0			−50	μA
Emitter cutoff current	I _{EBO}	V _{EB} = −3V, I _C = 0			−50	μA
Forward current transfer ratio	h _{FE1}	V _{CE} = −5V, I _C = −20mA	20			
	h _{FE2} *	V _{CE} = −5V, I _C = −1A	60		200	
	h _{FE3}	V _{CE} = −5V, I _C = −5A	20			
Base to emitter voltage	V _{BE}	V _{CE} = −5V, I _C = −5A			−1.8	V
Collector to emitter saturation voltage	V _{CE(sat)}	I _C = −5A, I _B = −0.5A			−2.0	V
Transition frequency	f _T	V _{CE} = −5V, I _C = −0.5A, f = 1MHz		15		MHz
Collector output capacitance	C _{ob}	V _{CB} = −10V, I _E = 0, f = 1MHz		200		pF

*h_{FE2} Rank classification

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



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