

2SB1470

上海2SB1470C"供应商

Silicon PNP triple diffusion planar type darlington

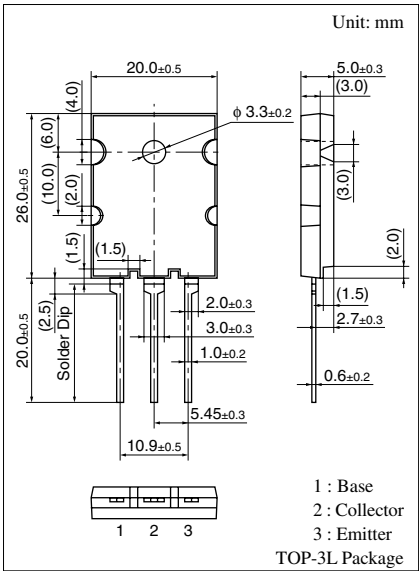
For power amplification
Complementary to 2SD2222

Features

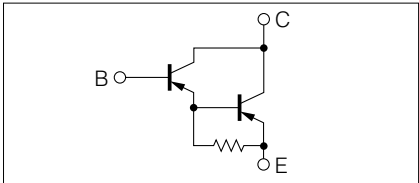
- Optimum for 120 W Hi-Fi output
- High forward current transfer ratio h_{FE}
- Low collector to emitter saturation voltage $V_{CE(sat)}$

Absolute Maximum Ratings $T_C = 25^\circ C$

Parameter	Symbol	Rating	Unit
Collector to base voltage	V_{CBO}	-160	V
Collector to emitter voltage	V_{CEO}	-160	V
Emitter to base voltage	V_{EBO}	-5	V
Peak collector current	I_{CP}	-15	A
Collector current	I_C	-8	A
Collector power dissipation	$T_C = 25^\circ C$ $T_a = 25^\circ C$	P_C	W
Junction temperature	T_j	150	$^\circ C$
Storage temperature	T_{stg}	-55 to +150	$^\circ C$



Internal Connection



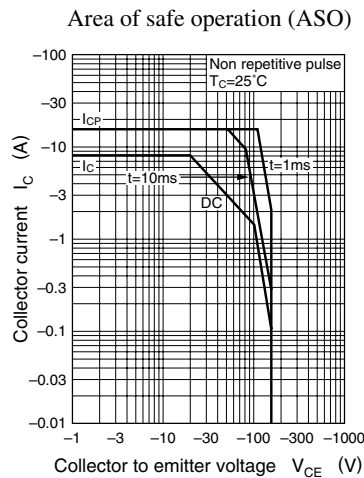
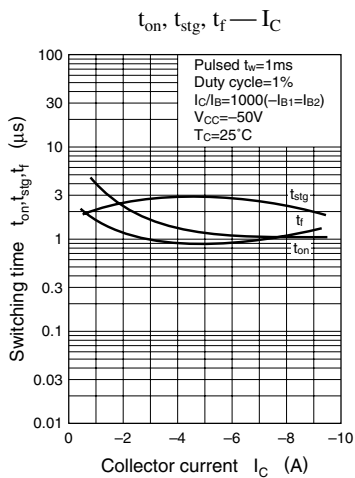
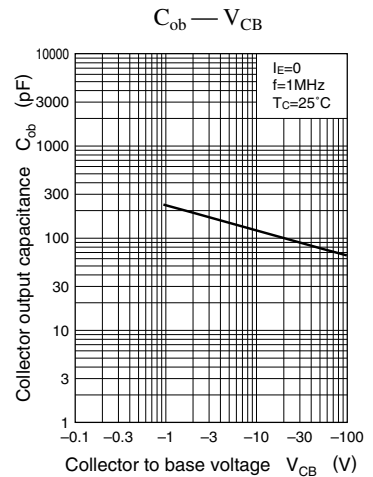
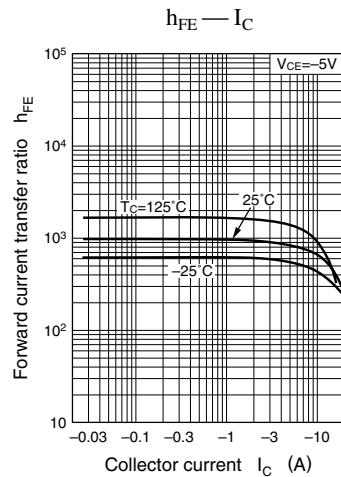
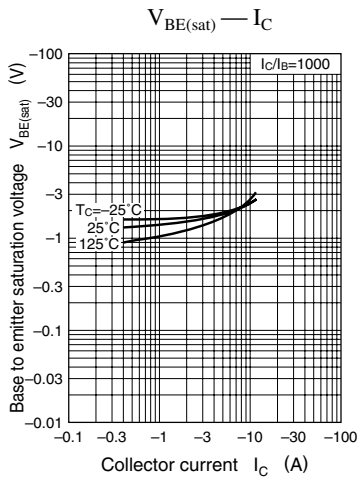
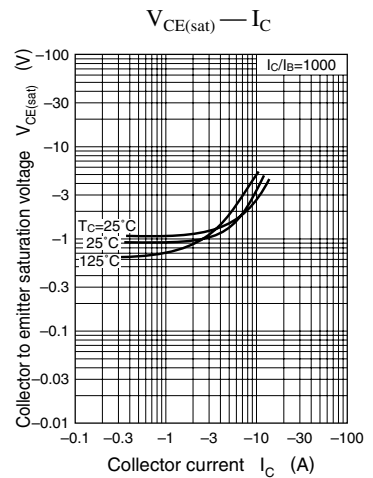
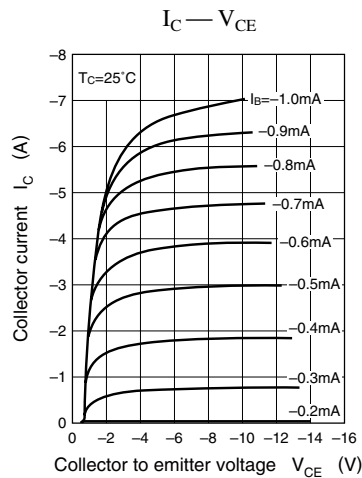
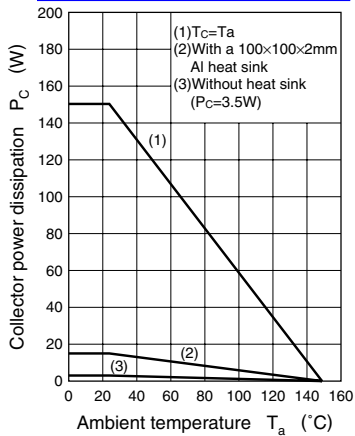
Electrical Characteristics $T_C = 25^\circ C$

Parameter	Symbol	Conditions	Min	Typ	Max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -160 V, I_E = 0$			-100	μA
	I_{CEO}	$V_{CE} = -160 V, I_B = 0$			-100	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -5 V, I_C = 0$			-100	μA
Collector to emitter voltage	V_{CEO}	$I_C = -30 mA, I_B = 0$	-160			V
Forward current transfer ratio	h_{FE1}	$V_{CE} = -5 V, I_C = -1 A$	1 000			
	h_{FE2}^*	$V_{CE} = -5 V, I_C = -7 A$	3 500		20 000	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -7 A, I_B = -7 mA$			-3	V
Base to emitter saturation voltage	$V_{BE(sat)}$	$I_C = -7 A, I_B = -7 mA$			-3	V
Transition frequency	f_T	$V_{CE} = -10 V, I_C = -0.5 A, f = 1 MHz$		20		MHz
Turn-on time	t_{on}	$I_C = -7 A, I_{B1} = -7 mA, I_{B2} = 7 mA, V_{CC} = -50 V$		1		μs
Storage time	t_{stg}			1.5		μs
Fall time	t_f			1.2		μs

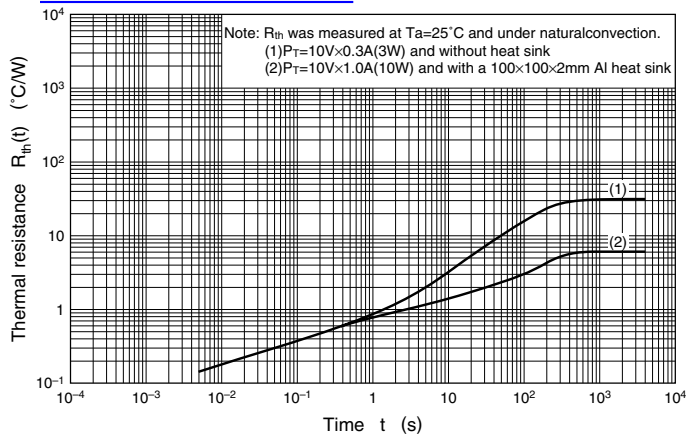
Note) *: Rank classification

Rank	Q	S
h_{FE2}	3 500 to 10 000	7 000 to 20 000

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