

2SB774

Silicon PNP epitaxial planer type

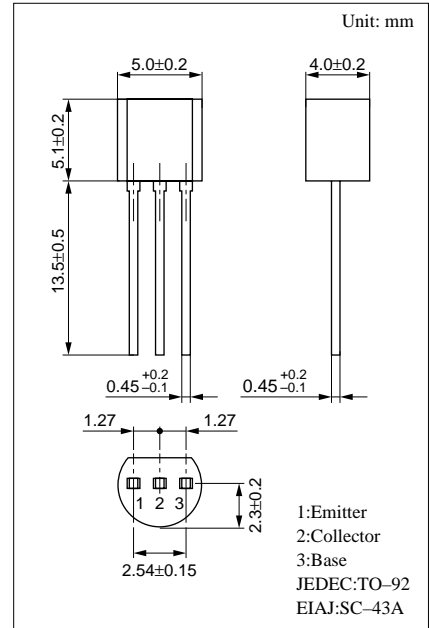
For low-frequency amplification

■ Features

- High emitter to base voltage V_{EBO} .
- Protective diodes and resistances between emitter and base can be omitted.

■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	-30	V
Collector to emitter voltage	V_{CEO}	-25	V
Emitter to base voltage	V_{EBO}	-15	V
Peak collector current	I_{CP}	-200	mA
Collector current	I_C	-100	mA
Collector power dissipation	P_C	400	mW
Junction temperature	T_j	150	°C
Storage temperature	T_{stg}	-55 ~ +150	°C



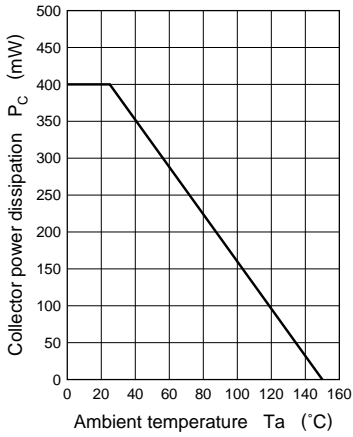
■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = -10V, I_E = 0$			-1	μA
	I_{CEO}	$V_{CE} = -20V, I_B = 0$			-100	μA
Collector to base voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-30			V
Collector to emitter voltage	V_{CEO}	$I_C = -2mA, I_B = 0$	-25			V
Emitter to base voltage	V_{EBO}	$I_E = -10\mu A, I_C = 0$	-15			V
Forward current transfer ratio	h_{FE1}^*	$V_{CE} = -10V, I_C = -2mA$	210		460	
	h_{FE2}	$V_{CE} = -2V, I_C = -100mA$	90			
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -100mA, I_B = -10mA$			-0.5	V
Transition frequency	f_T	$V_{CB} = -10V, I_E = 2mA, f = 200MHz$		150		MHz
Collector output capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$		4		pF

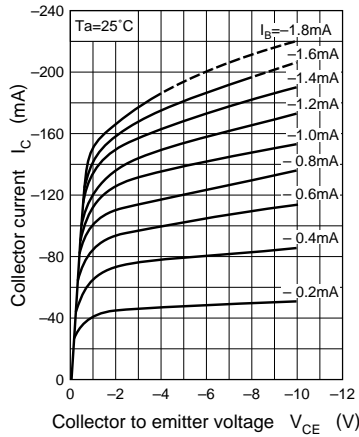
* h_{FE1} Rank classification

Rank	R	S
h_{FE1}	210 ~ 340	290 ~ 460

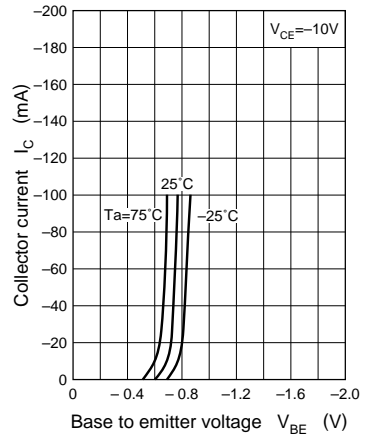
$P_C - T_a$



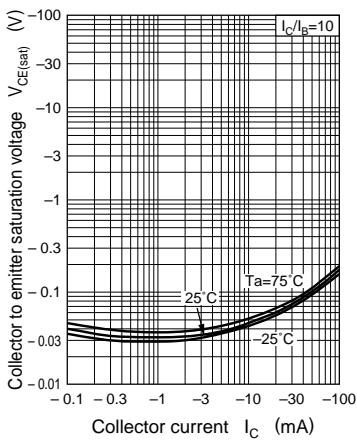
$I_C - V_{CE}$



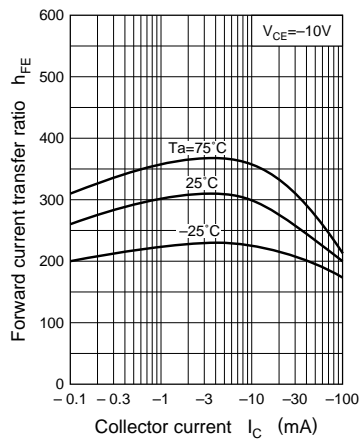
$I_C - V_{BE}$



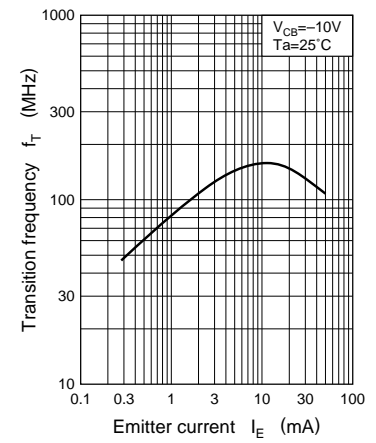
$V_{CE(sat)} - I_C$



$h_{FE} - I_C$



$f_T - I_E$



$C_{ob} - V_{CB}$

