

# 2SB0726 (2SB726)

Silicon PNP epitaxial planer type

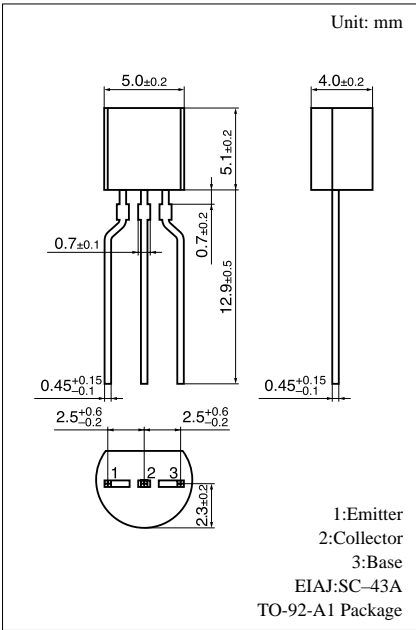
For general amplification

## ■ Features

- High forward current transfer ratio  $h_{FE}$ .
- High collector to emitter voltage  $V_{CEO}$ .

## ■ Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	$V_{CBO}$	-80	V
Collector to emitter voltage	$V_{CEO}$	-80	V
Emitter to base voltage	$V_{EBO}$	-5	V
Collector current	$I_C$	-100	mA
Collector power dissipation	$P_C$	250	mW
Junction temperature	$T_j$	150	°C
Storage temperature	$T_{stg}$	-55 ~ +150	°C



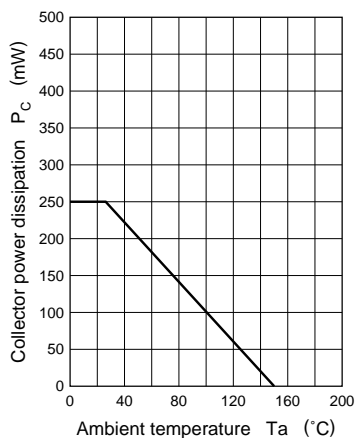
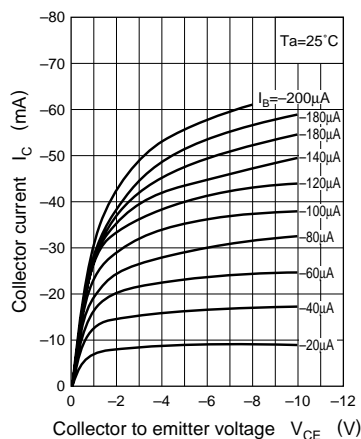
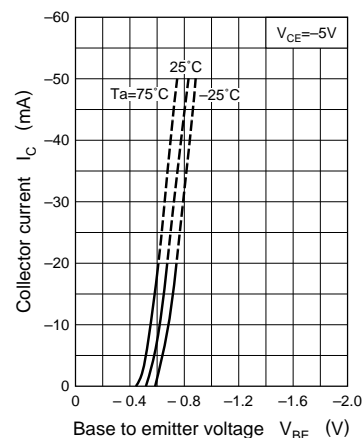
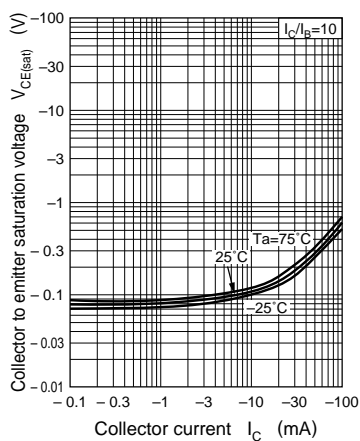
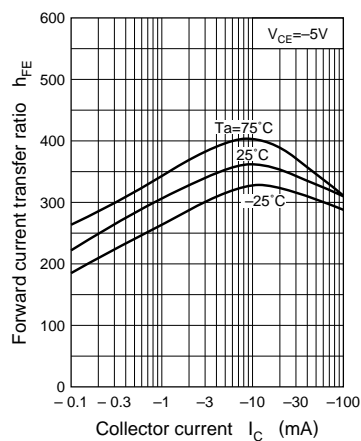
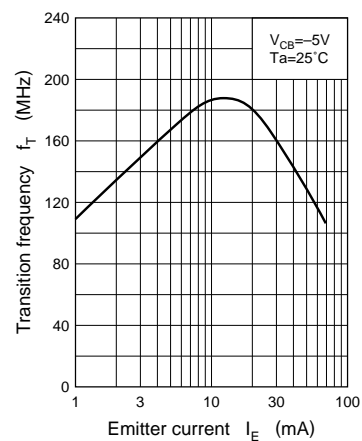
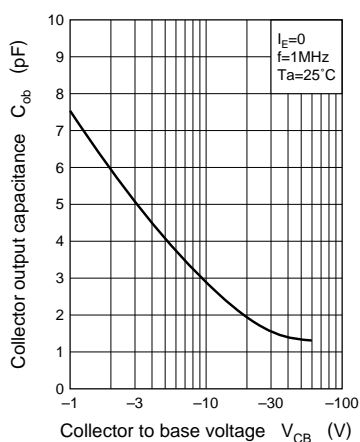
## ■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	$I_{CBO}$	$V_{CB} = -10V, I_E = 0$			-100	nA
	$I_{CEO}$	$V_{CE} = -10V, I_B = 0$			-1	μA
Collector to base voltage	$V_{CBO}$	$I_C = -10\mu A, I_E = 0$	-80			V
Collector to emitter voltage	$V_{CEO}$	$I_C = -2mA, I_B = 0$	-80			V
Emitter to base voltage	$V_{EBO}$	$I_E = -10\mu A, I_C = 0$	-5			V
Forward current transfer ratio	$h_{FE}^*$	$V_{CB} = -5V, I_E = -2mA$	180		700	
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -20mA, I_B = -2mA$			-0.6	V
Base to emitter voltage	$V_{BE}$	$V_{CE} = -1V, I_C = -100mA$		-1	-1.2	V
Transition frequency	$f_T$	$V_{CB} = -5V, I_E = 2mA, f = 200MHz$		150		MHz

\* $h_{FE}$  Rank classification

Rank	R	S	T
$h_{FE}$	180 ~ 360	260 ~ 520	360 ~ 700

Note.) The Part number in the Parenthesis shows conventional part number.

$P_C - T_a$  $I_C - V_{CE}$  $I_C - V_{BE}$  $V_{CE(sat)} - I_C$  $h_{FE} - I_C$  $f_T - I_E$  $C_{ob} - V_{CB}$ 

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