

2SC4626

Silicon NPN epitaxial planer type

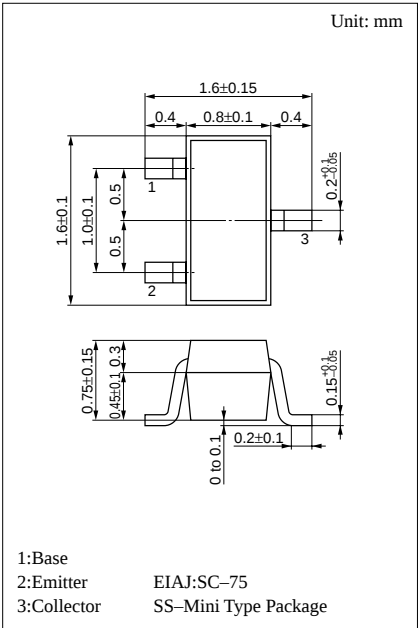
For high-frequency amplification
Complementary to 2SA1790

Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T .
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Ratings	Unit
Collector to base voltage	V_{CBO}	30	V
Collector to emitter voltage	V_{CEO}	20	V
Emitter to base voltage	V_{EBO}	5	V
Collector current	I_C	30	mA
Collector power dissipation	P_C	125	mW
Junction temperature	T_j	125	°C
Storage temperature	T_{stg}	-55 ~ +125	°C



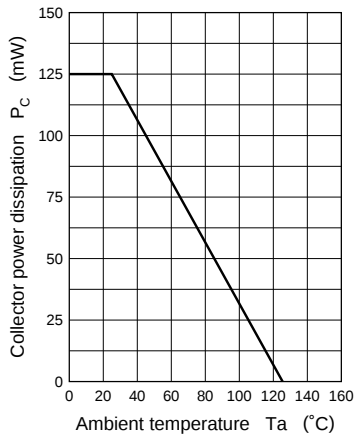
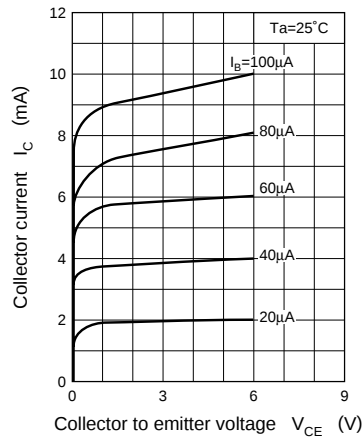
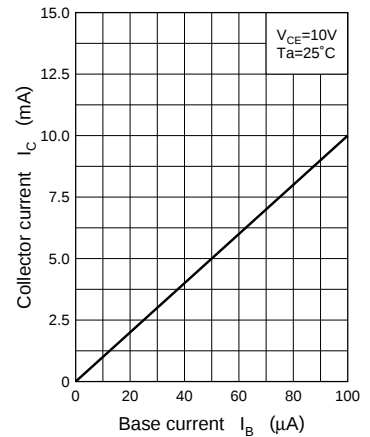
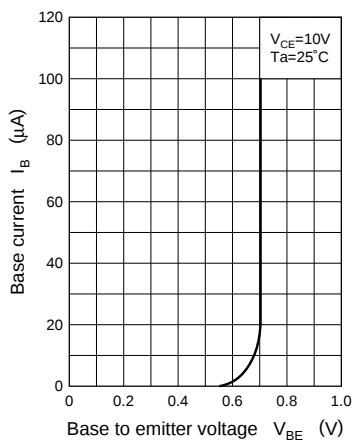
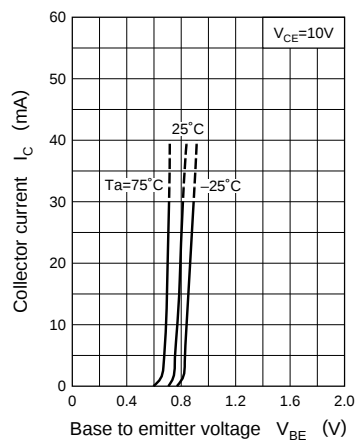
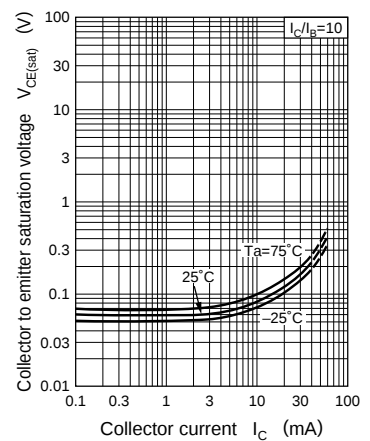
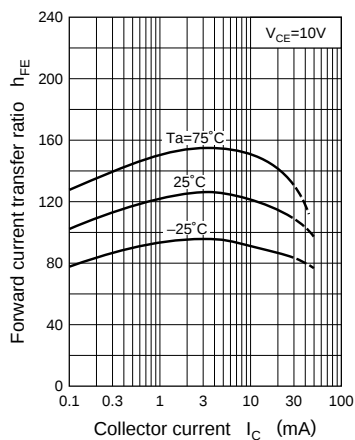
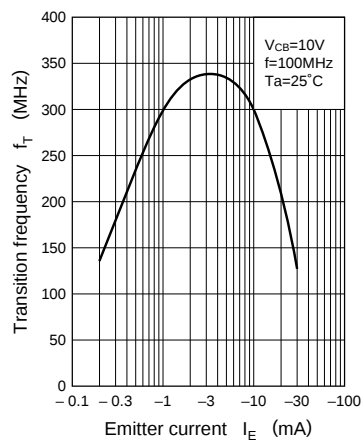
Marking symbol : V

Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current	I_{CBO}	$V_{CB} = 10V, I_E = 0$			0.1	μA
Forward current transfer ratio	h_{FE}^*	$V_{CB} = 10V, I_E = -1mA$	70		220	
Transition frequency	f_T	$V_{CB} = 10V, I_E = -1mA, f = 200MHz$	150	250		MHz
Noise figure	NF	$V_{CB} = 10V, I_E = -1mA, f = 5MHz$		2.8	4	dB
Reverse transfer impedance	Z_{rb}	$V_{CB} = 10V, I_E = -1mA, f = 2MHz$		22	50	Ω
Common emitter reverse transfer capacitance	C_{re}	$V_{CB} = 10V, I_E = -1mA, f = 10.7MHz$		0.9	1.5	pF

* h_{FE} Rank classification

Rank	B	C
h_{FE}	70 ~ 140	110 ~ 220
Marking Symbol	VB	VC

$P_C - T_a$  $I_C - V_{CE}$  $I_C - I_B$  $I_B - V_{BE}$  $I_C - V_{BE}$  $V_{CE(sat)} - I_C$  $h_{FE} - I_C$  $f_T - I_E$  $Z_{rb} - I_E$ 