

# 2SC4627

Silicon NPN epitaxial planer type

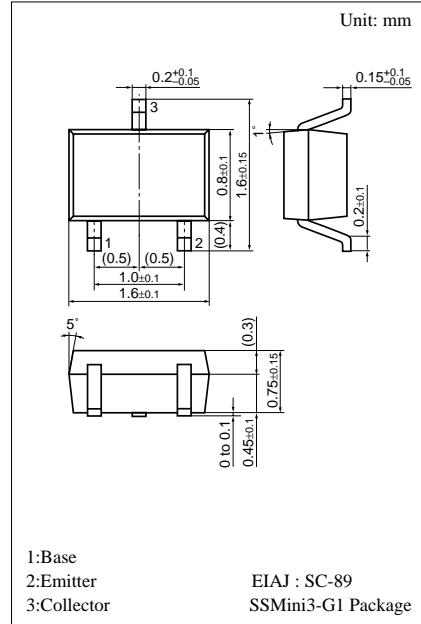
For high-frequency amplification

## ■ 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	$V_{EBO}$	3	V
Collector current	$I_C$	15	mA
Collector power dissipation	$P_C$	125	mW
Junction temperature	$T_j$	125	°C
Storage temperature	$T_{stg}$	-55 ~ +125	°C



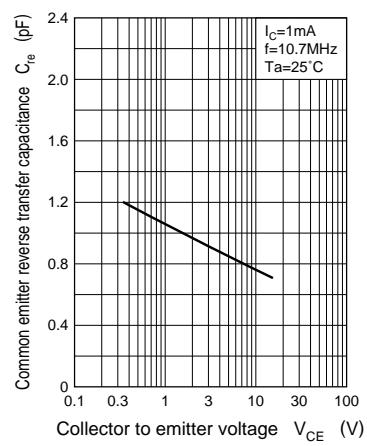
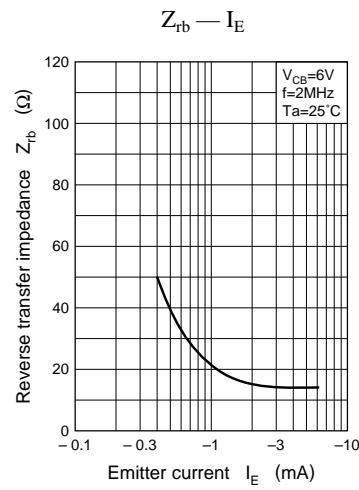
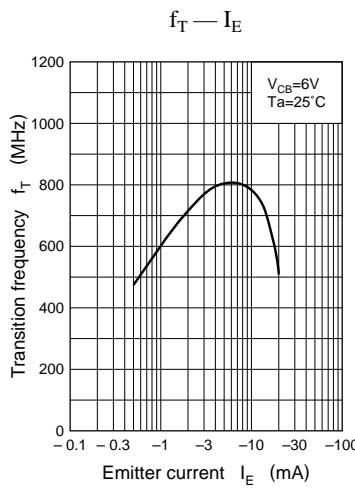
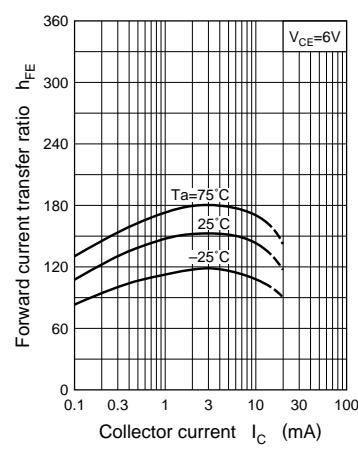
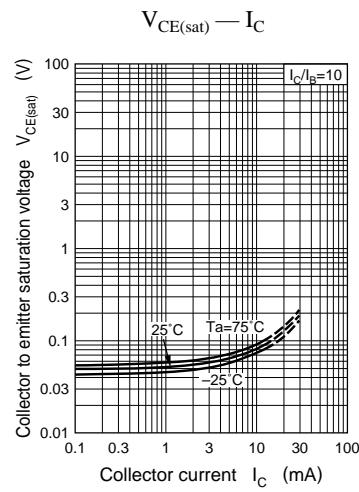
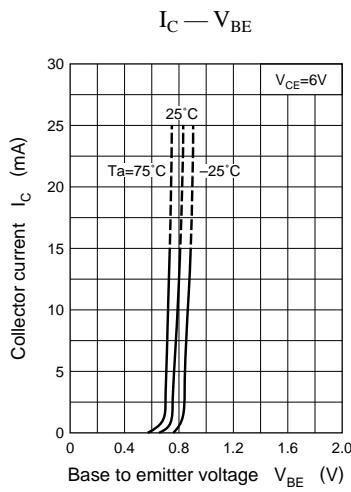
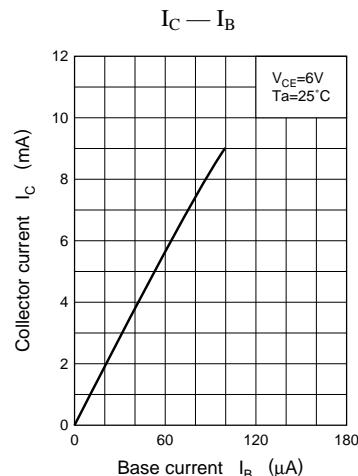
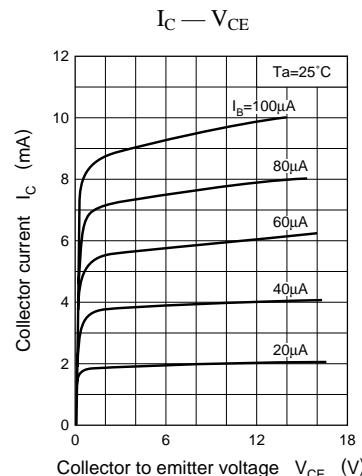
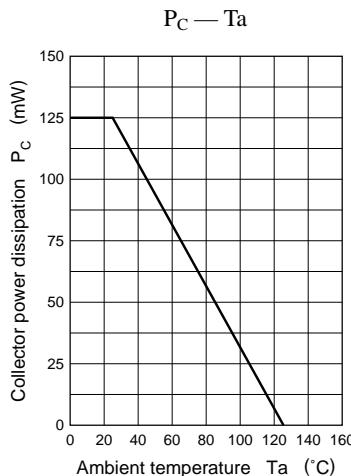
Marking symbol : U

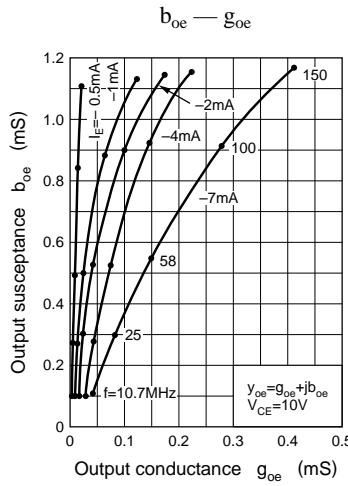
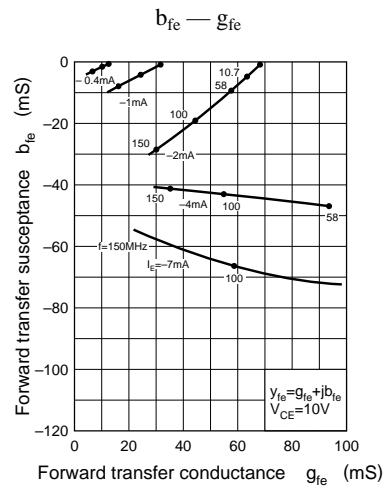
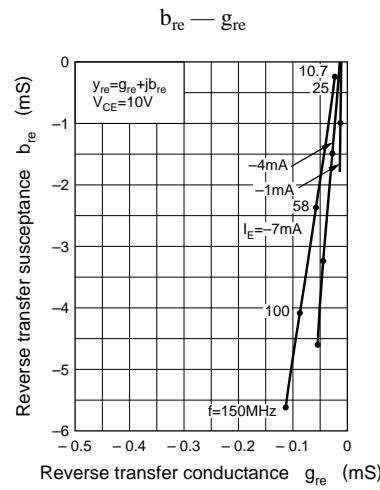
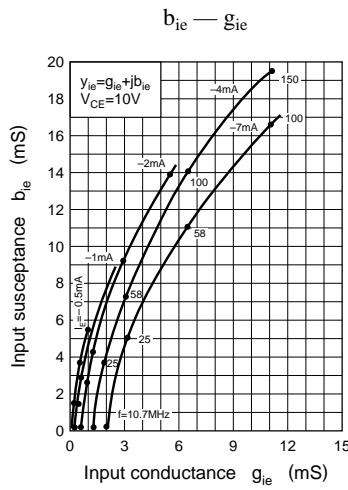
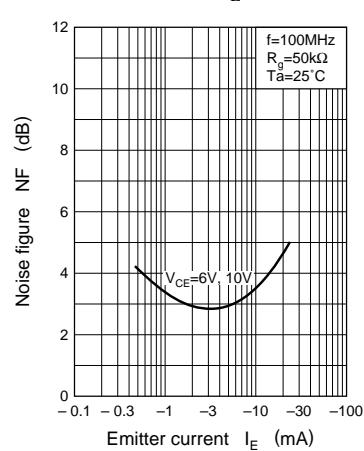
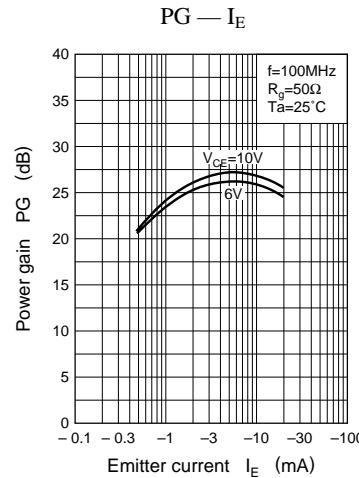
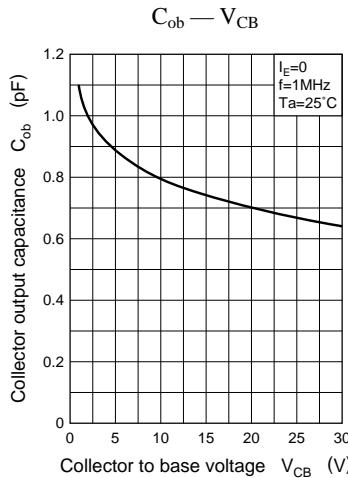
## ■ Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	$V_{CBO}$	$I_C = 10\mu A, I_E = 0$	30			V
Emitter to base voltage	$V_{EBO}$	$I_E = 10\mu A, I_C = 0$	3			V
Forward current transfer ratio	$h_{FE}^*$	$V_{CB} = 6V, I_E = -1mA$	40		260	
Base to emitter voltage	$V_{BE}$	$V_{CB} = 6V, I_E = -1mA$		0.72		V
Transition frequency	$f_T$	$V_{CB} = 6V, I_E = -1mA, f = 200MHz$	450	650		MHz
Common emitter reverse transfer capacitance	$C_{re}$	$V_{CB} = 6V, I_E = -1mA, f = 10.7MHz$		0.8	1	pF
Power gain	PG	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		24		dB
Noise figure	NF	$V_{CB} = 6V, I_E = -1mA, f = 100MHz$		3.3		dB

\* $h_{FE}$  Rank classification

Rank	B	C	D
$h_{FE}$	40 ~ 110	65 ~ 160	100 ~ 260
Marking Symbol	UB	UC	UD





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