2SC2636

Silicon NPN epitaxial planer type

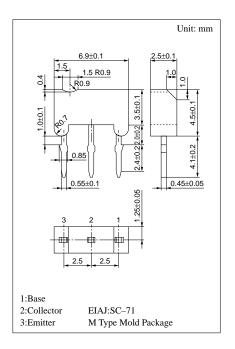
For high-frequency amplification/oscillation

Features

- High transition frequency f_T.
- M type package allowing easy automatic and manual insertion as well as stand-alone fixing to the printed circuit board.

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}	50	mA
Collector power dissipation	P_{C}	400	mW
Junction temperature	T_{j}	150	°C
Storage temperature	$T_{\rm stg}$	−55 ~ +150	°C



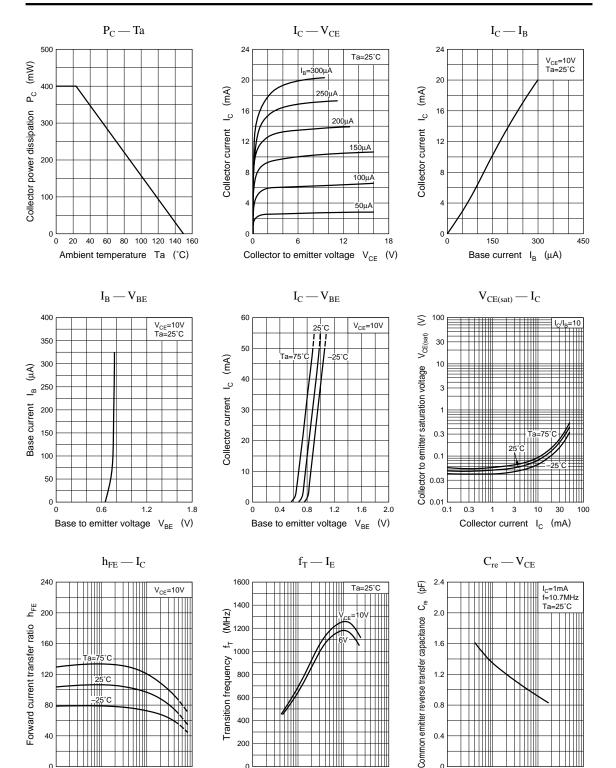
Electrical Characteristics (Ta=25°C)

Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V _{CBO}	$I_{\rm C} = 100 \mu {\rm A}, I_{\rm E} = 0$	30			V
Emitter to base voltage	V _{EBO}	$I_E = 10 \mu A, I_C = 0$	3			V
Forward current transfer ratio	h _{FE}	$V_{CB} = 10V, I_{E} = -2mA$	25			
Base to emitter voltage	V _{BE}	$V_{CB} = 10V, I_{E} = -2mA$		720		mV
Transition frequency	f_T^*	$V_{CB} = 10V, I_E = -15mA, f = 200MHz$	600	1200	1600	MHz
Power gain	PG	$V_{CB} = 10V, I_E = -1mA, f = 100MHz$		20		dB
Common base reverse transfer capacitance	C _{rb}	$V_{CB} = 6V, I_{E} = 0, f = 1MHz$		0.8		pF
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 10V, I_C = 1mA, f = 10.7MHz$			1.5	pF
Base time constant	$r_{bb}' \cdot C_C$	$V_{CB} = 10V, I_E = -10mA, f = 31.9MHz$			25	ps

*f_T Rank classification

Rank	T	S		
f_T	600 ~ 1300	900 ~ 1600		

Transistor 2SC2636



30

(mA)

10

Collector current I_C

2

0.3

30

100

3 10

Emitter current I_E (mA)

0.3

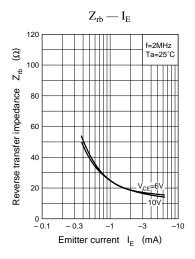
30

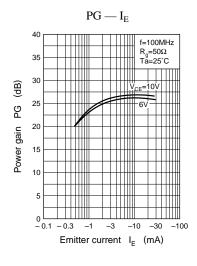
100

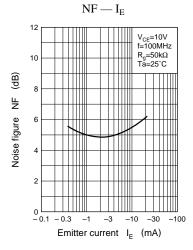
3 10

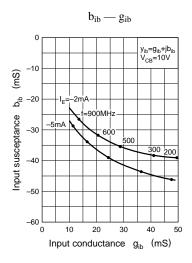
Collector to emitter voltage

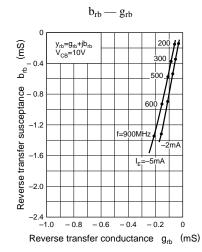
Transistor 2SC2636

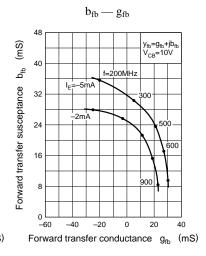


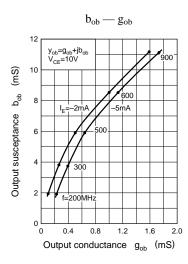












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