2SC1359

Silicon NPN epitaxial planer type

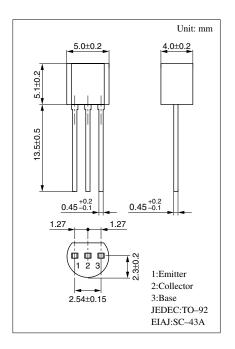
For high-frequency amplification Complementary to 2SA0838 (2SA838)

Features

- Optimum for RF amplification of FM/AM radios.
- High transition frequency f_T.

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	$V_{\rm EBO}$	5	V
Collector current	I_{C}	30	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}	$V_{CB} = 10V, I_{E} = 0$			0.1	μА
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}	$V_{CE} = 10V, I_C = 1mA, f = 10.7MHz$		0.9	1.5	pF

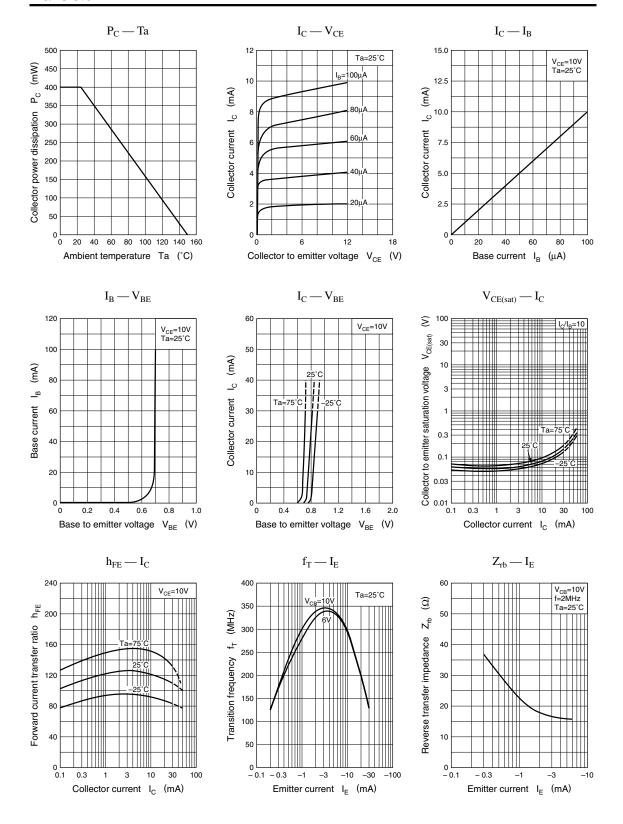
*hFE Rank classification

Rank	В	С
h_{FE}	70 ~ 140	110 ~ 220

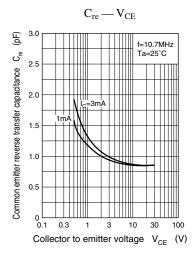
Note.) The Part number in the Parenthesis shows conventional part number.

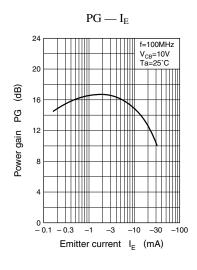
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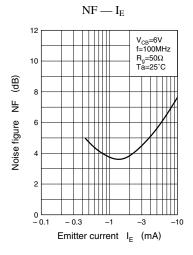
Transistor 2SC1359

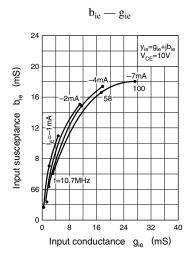


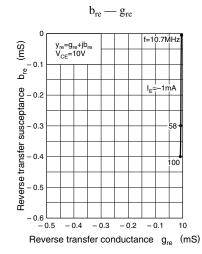
Transistor 2SC1359

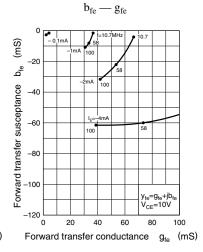


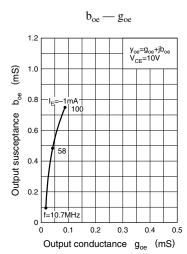












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