2SC2647

Silicon NPN epitaxial planer type

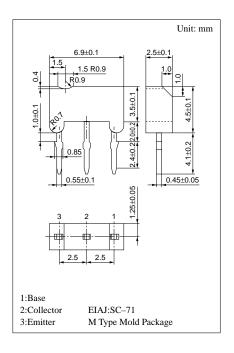
For high-frequency amplification

Features

- Optimum for RF amplification, oscillation, mixing, and IF of FM/ AM radios.
- 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}	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



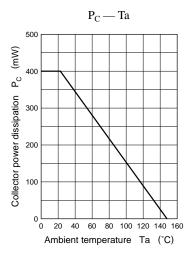
Electrical Characteristics (Ta=25°C)

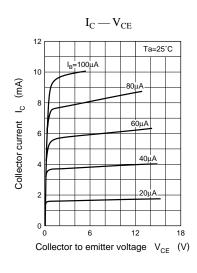
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V_{CBO}	$I_{\rm C} = 10 \mu A, I_{\rm E} = 0$	30			V
Collector to emitter voltage	V_{CEO}	$I_C = 2mA$, $I_B = 0$	20			V
Emitter to base voltage	$V_{\rm EBO}$	$I_E = 10 \mu A, I_C = 0$	5			V
Forward current transfer ratio	h _{FE} *	$V_{CB} = 10V, I_E = -1mA$	70		250	
Transition frequency	f_{T}	$V_{CB} = 10V, I_E = -1mA, f = 200MHz$	150	230		MHz
Common emitter reverse transfer capacitance	C _{re}	$V_{CE} = 10V, I_{C} = 1mA, f = 10.7MHz$		1.3	1.6	pF
Reverse transfer impedance	Z_{rb}	$V_{CB} = 10V, I_{E} = -1mA$			60	Ω

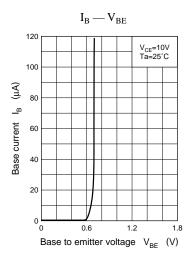
*h_{FE} Rank classification

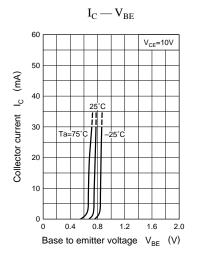
Rank	В	С
h_{FE}	70 ~ 160	110 ~ 250

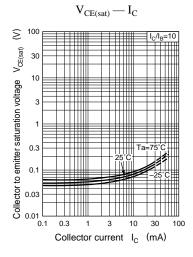
Transistor 2SC2647

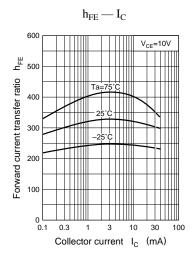


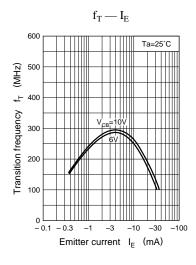




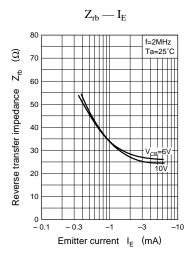


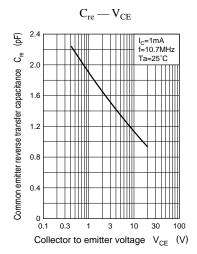




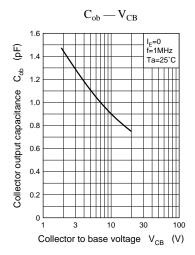


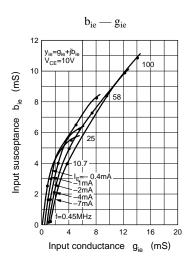
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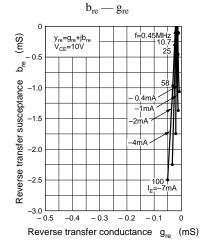


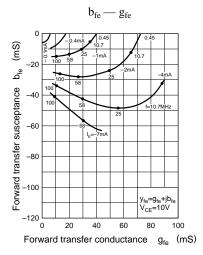


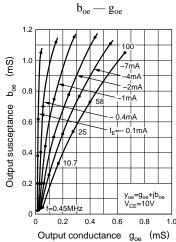
Transistor 2SC2647











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