2SA1790

Silicon PNP epitaxial planer type

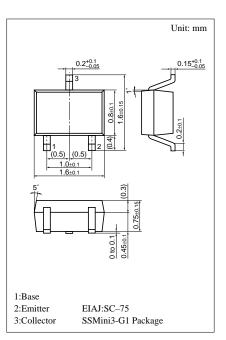
For high-frequency amplification Complementary to 2SC4626

Features

- High transition frequency f_T.
- SS-Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

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	Tj	125	°C
Storage temperature	T _{stg}	-55 ~ +125	°C

Absolute Maximum Ratings (Ta=25°C)



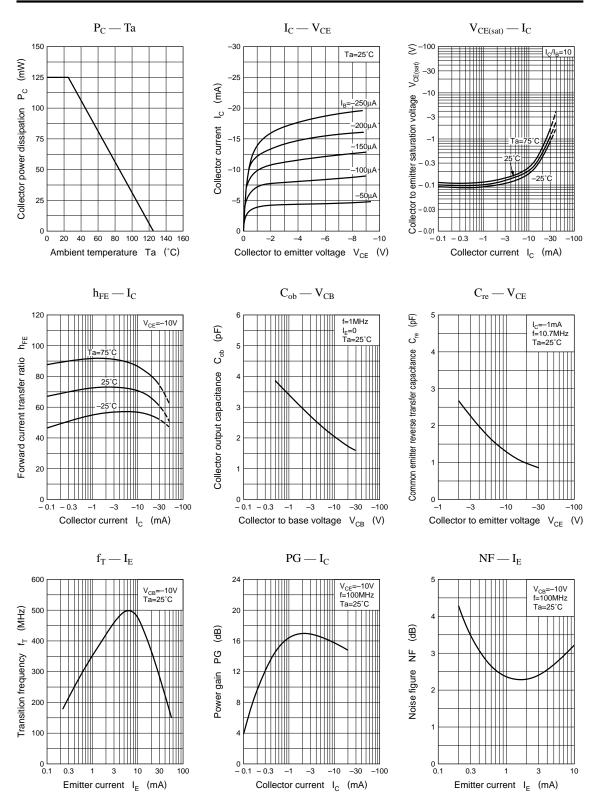
Marking symbol : E

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		
	I _{CEO}	$V_{CE} = -20V, I_B = 0$			-100	μA	
Emitter cutoff current	I _{EBO}	$V_{EB} = -5V, I_C = 0$			-10	μΑ	
Forward current transfer ratio	h _{FE} *	$V_{CE} = -10V, I_C = 1mA$	70		220		
Transition frequency	f _T	$V_{CB} = -10V, I_E = 1mA, f = 200MHz$	150	300		MHz	
Collector to emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 {\rm mA}, I_{\rm B} = -1 {\rm mA}$		- 0.1		v	
Base to emitter voltage	V _{BE}	$V_{CE} = -10V, I_C = -1mA$		- 0.7		V	
Noise figure	NF	$V_{CB} = -10V, I_E = 1mA, f = 5MHz$		2.8	4.0	dB	
Reverse transfer impedance	Z _{rb}	$V_{CB} = -10V$, $I_E = 1mA$, $f = 2MHz$		22	60	Ω	
Common emitter reverse transfer	C	$V_{CE} = -10V, I_C = -1mA$		1.2	2.0		
capacitance	C _{re}	f = 10.7 MHz		1.2	2.0	pF	

*h_{FE} Rank classification

Rank	В	С	
$h_{\rm FE}$	70 ~ 140	110 ~ 220	
Marking Symbol	EB	EC	



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