2SA1034, 2SA1035

Silicon PNP epitaxial planer type

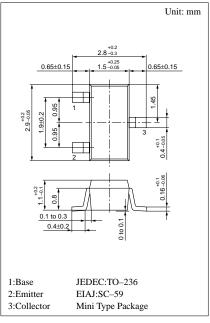
For low-frequency and low-noise amplification Complementary to 2SC2405 and 2SC2406

Features

- Low noise voltage NV.
- High foward current transfer ratio h_{FE}.
- Mini type package, allowing downsizing of the equipment and automatic insertion through the tape packing and the magazine packing.

Absolute Maximum Ratings (Ta=25°C)

Parameter		Symbol	Ratings	Unit	
Collector to	2SA1034	V	-35	V	
base voltage	2SA1035	V_{CBO}	-55		
Collector to	2SA1034	37	-35	V	
emitter voltage	2SA1035	V_{CEO}	-55		
Emitter to base voltage		V_{EBO}	-5	V	
Peak collector current		I_{CP}	-100	mA	
Collector current		I_C	-50	mA	
Collector power dissipation		P_{C}	200	mW	
Junction temperature		T_{j}	150	°C	
Storage temperature		$T_{\rm stg}$	−55 ~ +150	°C	



Marking symbol : F(2SA1034)H(2SA1035)

Electrical Characteristics (Ta=25°C)

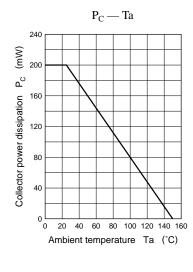
Parameter		Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I_{CBO}	$V_{CB} = -10V, I_E = 0$			-100	nA
		I _{CEO}	$V_{CE} = -10V, I_B = 0$			-1	μΑ
Collector to base	2SA1034	37	$I_{\rm C} = -10 \mu A, I_{\rm E} = 0$	-35			- V - V
voltage	2SA1035	V_{CBO}		-55			
Collector to emitter	2SA1034	V _{CEO}	$I_C = -2mA$, $I_B = 0$	-35			
voltage	2SA1035			-55			
Emitter to base voltage		V _{EBO}	$I_{\rm E} = -10 \mu A, I_{\rm C} = 0$	-5			V
Forward current transfer ratio		h _{FE} *1	$V_{CE} = -5V, I_{C} = -2mA$	180		700	
Collector to emitter saturation voltage		V _{CE(sat)}	$I_C = -100 \text{mA}, I_B = -10 \text{mA}^{*2}$		- 0.7	- 0.6	V
Base to emitter voltage		V _{BE}	$V_{CE} = -1V, I_{C} = -100 \text{mA}^{*2}$		200	-1.0	V
Transition frequency f _T		f_T	$V_{CB} = -5V$, $I_E = 2mA$, $f = 200MHz$				MHz
Noise voltage		NV	$V_{CE} = -10V$, $I_C = -1mA$, $G_V = 80dB$ $R_g = 100k\Omega$, Function = FLAT			150	mV

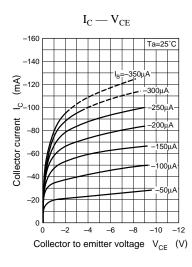
^{*}h_{FE1} Rank classification

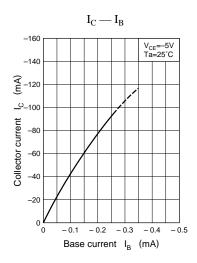
*2 Pulse measurement

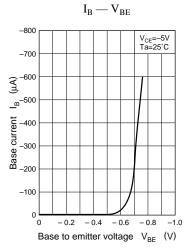
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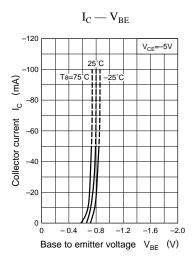
Rank R S T 260 ~ 520 360 ~ 700 180 ~ 360 h_{FE} 2SA1034 FR FS FT Marking Symbol 2SA1035 HR HS

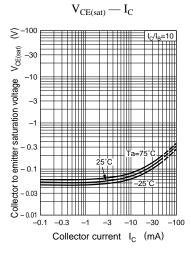


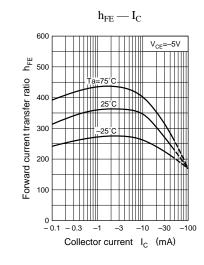




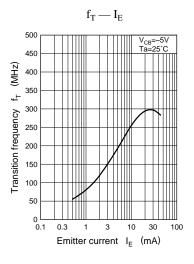


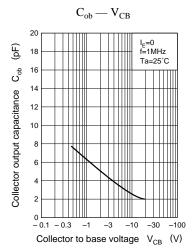






2





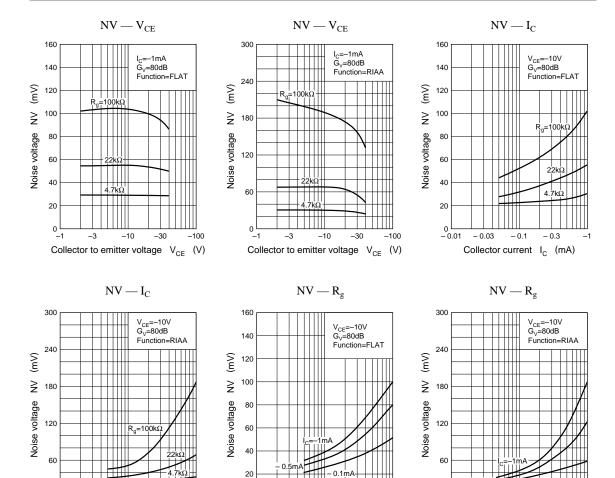
Signal source resistance R_g (k Ω)

3

0.01

-0.03

Collector current I_C (mA)



Signal source resistance $~{\rm R_g}~{\rm (k}\Omega)$

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