# 2SC2405, 2SC2406

### Silicon NPN epitaxial planer type

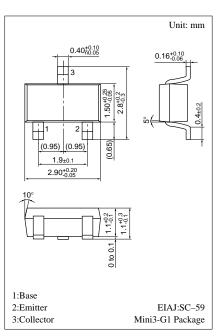
For low-frequency and low-noise amplification Complementary to 2SA1034 and 2SA1035

#### Features

- Low noise voltage NV.
- High foward current transfer ratio h<sub>FE</sub>.
- 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	2SC2405	17	35	V				
base voltage	2SC2406	V <sub>CBO</sub>	55	v				
Collector to	2SC2405	V	35	V				
emitter voltage	2SC2406	V <sub>CEO</sub>	55	v				
Emitter to base voltage		V <sub>EBO</sub>	5	V				
Peak collector current		I <sub>CP</sub>	100	mA				
Collector current		I <sub>C</sub>	50	mA				
Collector power dissipation		P <sub>C</sub>	200	mW				
Junction temperature		Tj	150	°C				
Storage temperature		T <sub>stg</sub>	-55 ~ +150	°C				





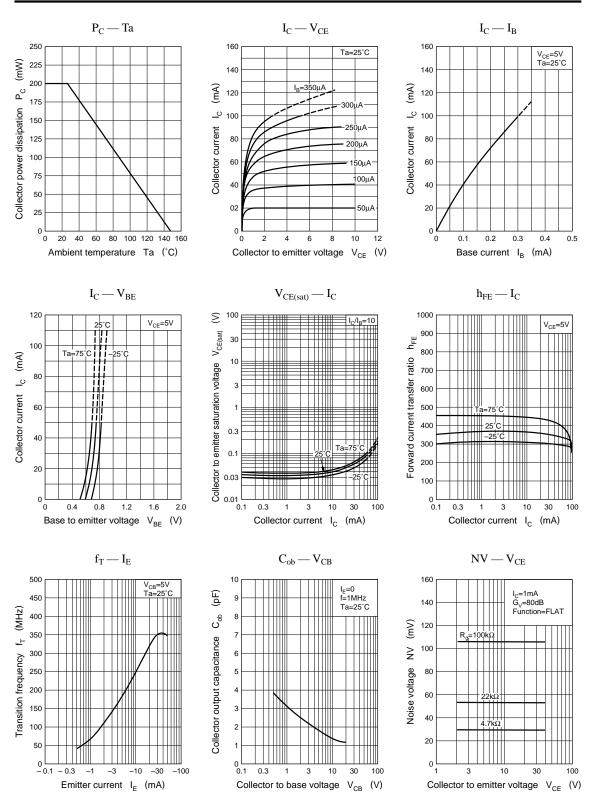
 $\begin{array}{l} \mbox{Marking symbol}: S(2SC2405) \\ T(2SC2406) \end{array}$ 

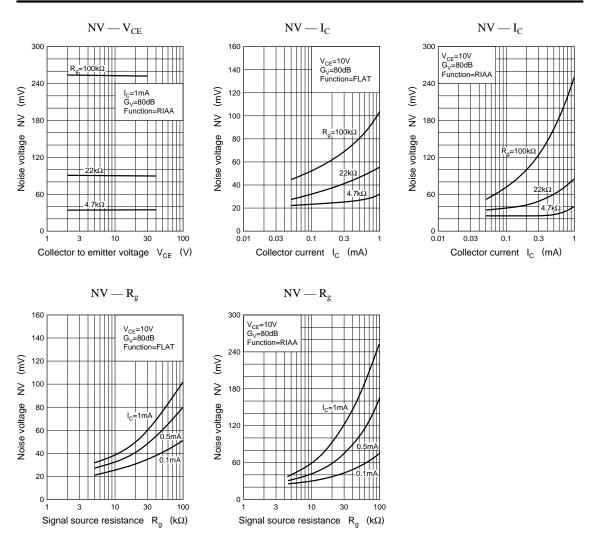
#### Electrical Characteristics (Ta=25°C)

Paramete	ər	Symbol	Conditions	min	typ	max	Unit
Collector cutoff current		I <sub>CBO</sub>	$V_{CB} = 10V, I_E = 0$			100	nA
		I <sub>CEO</sub>	$V_{CE} = 10V, I_B = 0$			1	μΑ
Collector to base	2SC2405	N	$I_C = 10 \mu A, I_E = 0$	35			- v
voltage	2SC2406	V <sub>CBO</sub>		55			
Collector to emitter	2SC2405			35			v
voltage	2SC2406	V <sub>CEO</sub>	$I_{\rm C} = 2mA, I_{\rm B} = 0$	55			
Emitter to base voltage		V <sub>EBO</sub>	$I_{\rm E} = 10 \mu A, I_{\rm C} = 0$	5			V
Forward current transfer ratio		h <sub>FE</sub> *	$V_{CB} = 5V, I_E = -2mA$	180		700	
Collector to emitter saturation voltage		V <sub>CE(sat)</sub>	$I_{\rm C} = 100 {\rm mA}, I_{\rm B} = 10 {\rm mA}$			0.6	V
Base to emitter voltage		V <sub>BE</sub>	$V_{CE} = 1V, I_C = 100mA$		0.7	1	v
Transition frequency		f <sub>T</sub>	$V_{CB} = 5V, I_E = -2mA, f = 200MHz$		200		MHz
Noise voltage		NV	$V_{CE} = 10V, I_C = 1mA, G_V = 80dB$ $R_g = 100k\Omega, Function = FLAT$		110		mV

\*hFE Rank classification

Rank		R	S	Т	
h <sub>FE</sub>		180 ~ 360	260 ~ 520	360 ~ 700	
Marking	2SC2405	SR	SS	ST	
Symbol	2SC2406	TR	TS	TT	





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