Package

Pin Name

Base
Emitter

3. Collector

Marking Symbol: T

 Code Mini3-G1

2SC2406

Silicon NPN epitaxial planar type

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

Features

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

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit			
Collector-base voltage (Emitter open)	V _{CBO}	55	V			
Collector-emitter voltage (Base open)	V _{CEO}	55	V			
Emitter-base voltage (Collector open)	V _{EBO}	5	v			
Collector current	I _C	50	mA			
Peak collector current	I _{CP}	100	mA			
Collector power dissipation	P _C	200	mW			
Junction temperature	Tj	150	°C			
Storage temperature	T _{stg}	-55 to +150	°C			

Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \ \mu {\rm A}, I_{\rm E} = 0$	55	, second se		V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 {\rm mA}, I_{\rm B} = 0$	55			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_{\rm E} = 10 \ \mu {\rm A}, I_{\rm C} = 0$	5			V
Base-emitter voltage	V _{BE}	$V_{CE} = 1 V, I_C = 100 mA$		0.7	1.0	V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 10 \text{ V}, I_E = 0$			0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CB} = 10 \text{ V}, I_B = 0$			1	μΑ
Forward current transfer ratio *	h _{FE}	$V_{CE} = 5 \text{ V}, I_{C} = 2 \text{ mA}$	180		700	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = 100 \text{ mA}, I_{\rm B} = 10 \text{ mA}$			0.6	V
Transition frequency	f _T	$V_{CB} = 5 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		200		MHz
Noise voltage	NV	$V_{CB} = 10 \text{ V}, I_C = 1 \text{ mA}, G_V = 80 \text{ dB},$ $R_g = 100 \text{ k}\Omega, \text{Function} = \text{FLAT}$		110		mV

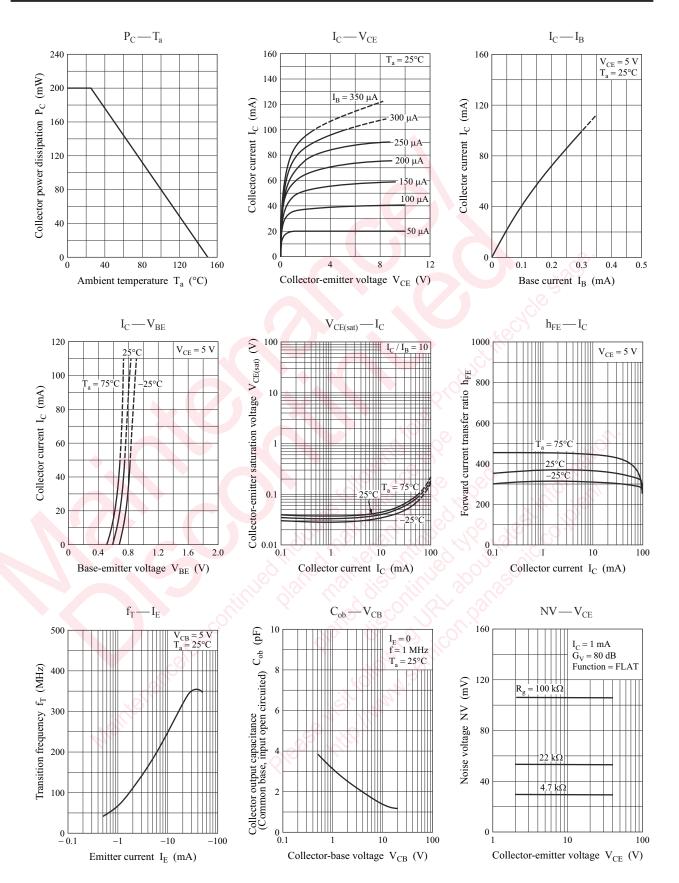
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

2. *: Rank classification

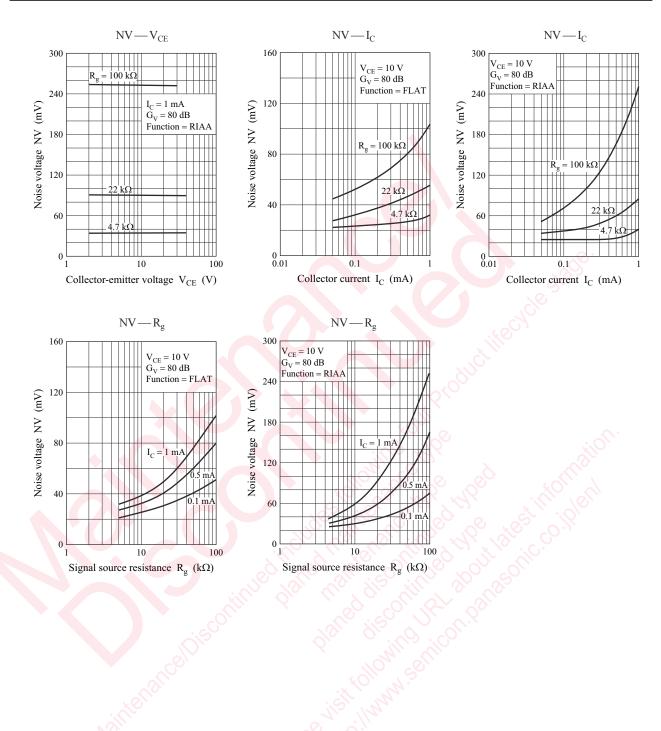
Rank	R	S	Т
$h_{\rm FE}$	180 to 360	260 to 520	360 to 700
Merking symbol	TR	TS	TT

2SC2406

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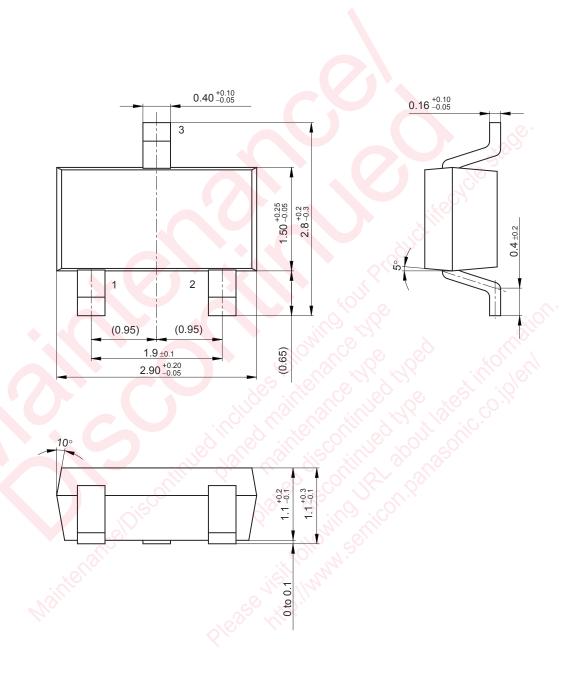


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Unit: mm



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