XN04130 (XN4130)

Silicon PNP epitaxial planar type

For amplification of low-frequency output

■ Features

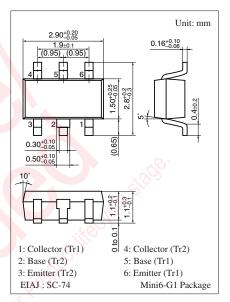
- Two elements incorporated into one package (Transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half

■ Basic Part Number

• UNR1130 (UN1130) × 2

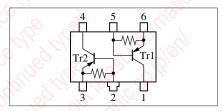
■ Absolute Maximum Ratings $T_a = 25$ °C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V_{CBO}	-15	V	
Collector-emitter voltage (Base open)	V _{CEO}	-15	V	
Emitter-base voltage (Collector open)	V_{EBO}	-7	V	
Collector current	I_{C}	- 0.5	A	
Peak collector current	I_{CP}	-1	A	
Total power dissipation	P _T	300	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T_{stg}	-55 to +150	S °C√	



Marking Symbol: OF

Internal Connection



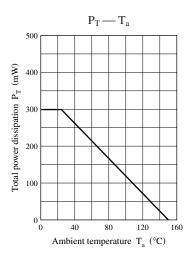
■ Electrical Characteristics T_a = 25°C ± 3°C

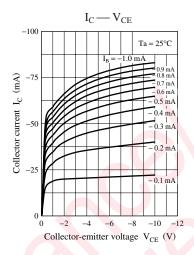
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-15			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -1 \text{ mA}, I_{\rm B} = 0$	-15			V
Emitter-base voltage (Collector open)	V _{EBO}	$I_E = -1 \text{ mA}, I_C = 0$	-7			V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -10 \text{ V}, I_E = 0$			- 0.1	μΑ
Forward current transfer ratio *	h _{FE1}	$V_{CE} = -2 \text{ V}, I_{C} = -500 \text{ mA}$	80		280	_
	h _{FE2}	$V_{CE} = -2 \text{ V}, I_{C} = -1 \text{ A}$	50			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_C = -300 \text{ mA}, I_B = -6 \text{ mA}$		- 0.2	- 0.3	V
Base-emitter saturation voltage	V _{BE(sat)}	$I_C = -300 \text{ mA}, I_B = -6 \text{ mA}$		- 0.9	-1.3	V
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 50 \text{ mA}, f = 200 \text{ MHz}$		130		MHz
Collector output capacitance	C _{ob}	$V_{CB} = -10 \text{ V}, I_E = 0, f = 1 \text{ MHz}$		22		pF
(Common base, input open circuited)						
Base-emitter resistance	R _{BE}		-30%	10	+30%	kΩ

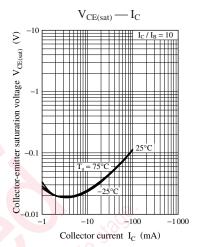
Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

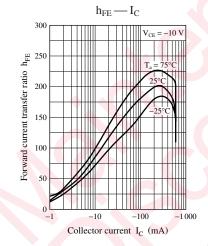
2. *: Pulse measurement

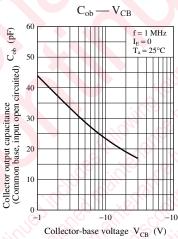
Note) The part number in the parenthesis shows conventional part number.

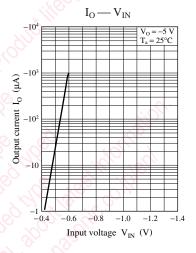


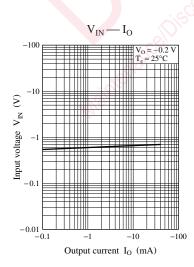












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