XN04110 (XN4110)

Silicon PNP epitaxial planar type

For switching/digital circuits

Features

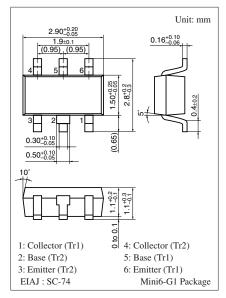
- Two elements incorporated into one package (Transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half

Basic Part Number

• UNR2110 (UN2110) × 2

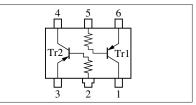
Absolute Maximum Ratings $T_a = 25^{\circ}C$

nbol F	Rating	Unit						
СВО	-50	V						
CEO	-50	V						
I _C	-100	mA						
PT	300	mW						
Гј	150	°C						
S _{stg} -55	5 to +150	°C						
	CBO CEO CEO CEO CEO CEO CEO CEO CEO CEO CE	$\begin{array}{c cccc} & -50 \\ \hline \\ CEO & -50 \\ \hline \\ I_C & -100 \\ \hline \\ P_T & 300 \\ \hline \\ T_j & 150 \\ \hline \end{array}$						



Marking Symbol: BI

Internal Connection



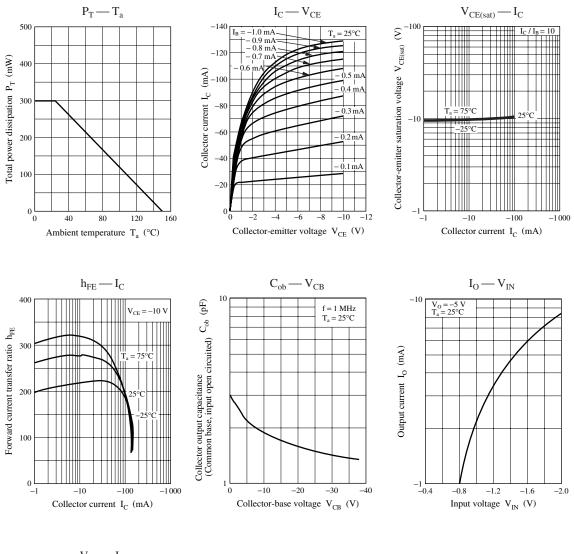
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

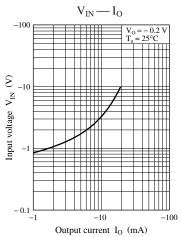
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu A, \ I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_B = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 V, I_C = 0$			- 0.01	mA
Forward current transfer ratio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$	160		460	
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10$ mA, $I_{\rm B} = -0.3$ mA			- 0.25	V
Output voltage high-level	V _{OH}	$V_{CC} = -5 \text{ V}, V_B = -0.5 \text{ V}, R_L = 1 \text{ k}\Omega$	-4.9			V
Output voltage low-level	V _{OL}	$V_{CC} = -5 \text{ V}, \text{ V}_{B} = -2.5 \text{ V}, \text{ R}_{L} = 1 \text{ k}\Omega$			- 0.2	V
Input resistance	R ₁		-30%	47	+30%	kΩ
Transition frequency	f _T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

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

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

Panasonic





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