XP06112 (XP6112)

Silicon PNP epitaxial planer transistor

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.

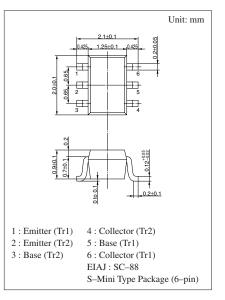
Basic Part Number of Element

• UNR1112(UN1112) \times 2 elements

Parameter		Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V _{CBO}	-50	V
	Collector to emitter voltage	V _{CEO}	-50	V
	Collector current	I _C	-100	mA
Overall	Total power dissipation	P _T	150	mW
	Junction temperature	Tj	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

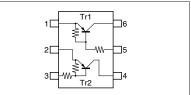
Absolute Maximum Ratings (Ta=25°C)

Electrical Characteristics (Ta=25°C)



Marking Symbol: 6V

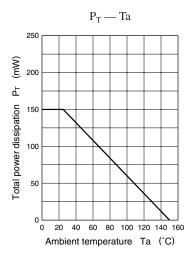
Internal Connection

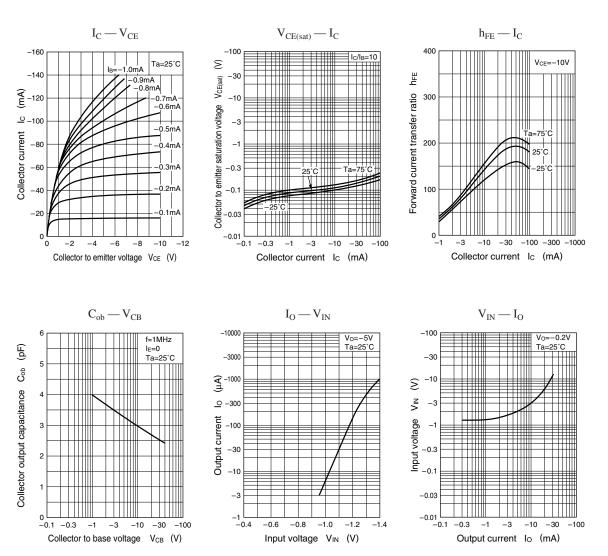


Parameter Symbol Conditions min max Unit typ $I_{\rm C} = -10\mu A, I_{\rm E} = 0$ V Collector to base voltage V_{CBO} -50V Collector to emitter voltage V_{CEO} $I_{C} = -2mA, I_{B} = 0$ -50 $V_{CB} = -50V, I_E = 0$ -0.1μΑ I_{CBO} Collector cutoff current $V_{CE} = -50V, I_B = 0$ -0.5μΑ ICEO $V_{EB} = -6V, I_C = 0$ Emitter cutoff current I_{EBO} -0.2mA $V_{CE} = -10V, I_C = -5mA$ Forward current transfer ratio h_{FE} 60 hFE (small/large)*1 $V_{CE} = -10V, I_C = -5mA$ 0.5 0.99 Forward current transfer h_{FE} ratio Collector to emitter saturation voltage V_{CE(sat)} $I_{C} = -10mA$, $I_{B} = -0.3mA$ -0.25V $V_{CC} = -5V, V_B = -0.5V, R_L = 1k\Omega$ V Output voltage high level V_{OH} -4.9 $V_{CC} = -5V, V_B = -2.5V, R_L = 1k\Omega$ V Output voltage low level VOL -0.2 $V_{CB} = -10V, I_E = 1mA, f = 200MHz$ MHz Transition frequency $f_{T} \\$ 80 +30% Input resistance R_1 -30% 22 kΩ Resistance ratio R_1/R_2 0.8 1.0 1.2

*1 Ratio between 2 elements

Note.) The Part number in the Parenthesis shows conventional part number.





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