XP04111 (XP4111)

Silicon PNP epitaxial planer transistor

For switching/digital circuits

Features

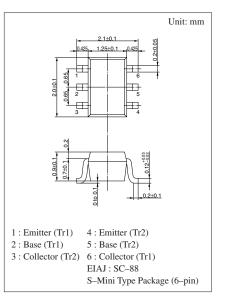
- Two elements incorporated into one package. (Transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half.

Basic Part Number of Element

• UNR1111(UN1111) \times 2 elements

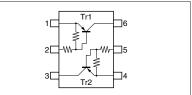
Parameter		Symbol	Ratings	Unit
Rating of element	Collector to base voltage	V _{CBO}	-50	V
	Collector to emitter voltage	V _{CEO}	-50	V
	Collector current	I _C	-100	mA
Overall	Total power dissipation	P _T	150	mW
	Junction temperature	Tj	150	°C
	Storage temperature	T _{stg}	-55 to +150	°C

Absolute Maximum Ratings (Ta=25°C)



Marking Symbol: 9U

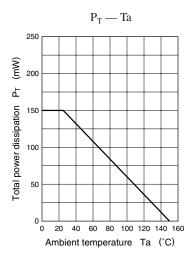
Internal Connection

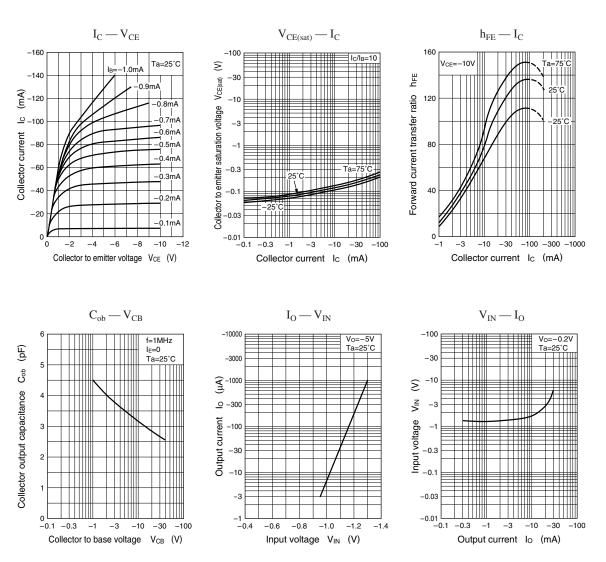


Conditions Parameter Symbol min max Unit typ $I_{\rm C} = -10\mu A, I_{\rm E} = 0$ V Collector to base voltage V_{CBO} -50V Collector to emitter voltage V_{CEO} $I_{C} = -2mA, I_{B} = 0$ -50 $V_{CB} = -50V, I_E = 0$ -0.1μΑ I_{CBO} Collector cutoff current $V_{CE} = -50V, I_B = 0$ -0.5 μΑ I_{CEO} $V_{EB} = -6V, I_C = 0$ Emitter cutoff current I_{EBO} -0.5mΑ $V_{CE} = -10V, I_C = -5mA$ Forward current transfer ratio 35 h_{FE} $I_{C} = -10mA$, $I_{B} = -0.3mA$ -0.25V Collector to emitter saturation voltage V_{CE(sat)} $V_{CC} = -5V, V_B = -0.5V, R_L = 1k\Omega$ Output voltage high level VOH -4.9 V $V_{CC} = -5V, V_B = -2.5V, R_L = 1k\Omega$ V Output voltage low level VOL -0.2 $V_{CB} = -10V, I_E = 1mA, f = 200MHz$ Transition frequency 80 MHz f_T -30% 10 +30% kΩ Input resistance R_1 Resistance ratio R_{1}/R_{2} 0.8 1.0 1.2

Electrical Characteristics (Ta=25°C)

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





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