XP06115 (XP6115)

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.

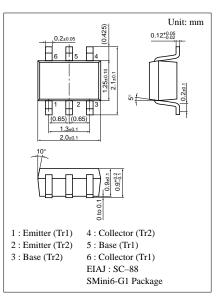
Basic Part Number of Element

• UNR1115(UN1115) \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

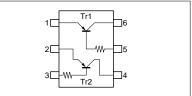
Absolute Maximum Ratings (Ta=25°C)

Electrical Characteristics (Ta=25°C)



Marking Symbol: 6X

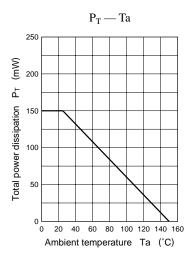
Internal Connection

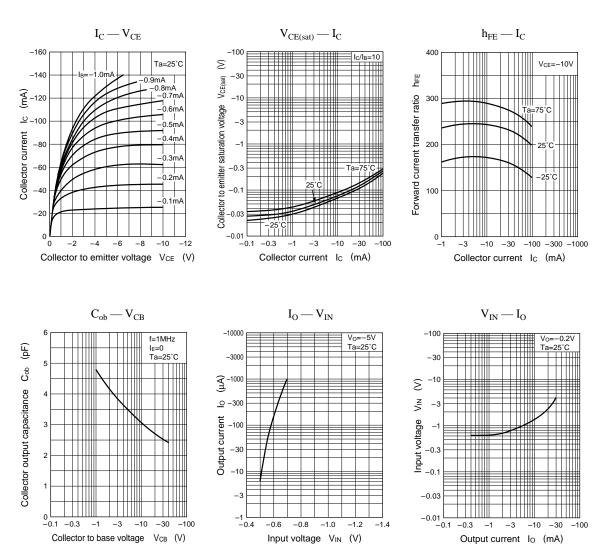


Parameter Symbol Conditions Unit min typ max Collector to base voltage V_{CBO} $I_C = -10 \mu A$, $I_E = 0$ -50 V V_{CEO} $I_{C} = -2mA, I_{B} = 0$ -50V Collector to emitter voltage $V_{CB} = -50V, I_E = 0$ -0.1μA I_{CBO} Collector cutoff current $V_{CE} = -50V, I_B = 0$ -0.5μΑ I_{CEO} Emitter cutoff current I_{EBO} $V_{EB} = -6V, I_C = 0$ -0.01mA Forward current transfer ratio $V_{CE} = -10V, I_C = -5mA$ 160 460 h_{FE} $V_{CE} = -10V, I_C = -5mA$ 0.99 hFE (small/large)*1 0.5 Forward current transfer h_{FE} ratio Collector to emitter saturation voltage $I_{C} = -10mA$, $I_{B} = -0.3mA$ -0.25V V_{CE(sat)} $V_{CC} = -5V, V_B = -0.5V, R_L = 1k\Omega$ Output voltage high level -4.9 V V_{OH} $V_{CC} = -5V, V_B = -2.5V, R_L = 1k\Omega$ V Output voltage low level VOL -0.2Transition frequency \mathbf{f}_{T} $V_{CB} = -10V$, $I_E = 1mA$, f = 200MHz80 MHz Input resistance R_1 -30% 10 +30%kΩ

*1 Ratio between 2 elements

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





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