

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) × 2 elements

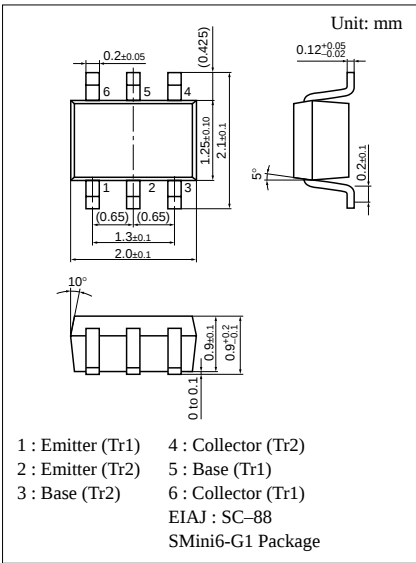
■ Absolute Maximum Ratings (Ta=25°C)

	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	T_j	150	°C
	Storage temperature	T_{stg}	-55 to +150	°C

■ Electrical Characteristics (Ta=25°C)

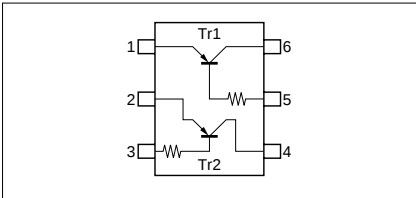
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V_{CBO}	$I_C = -10\mu A, I_E = 0$	-50			V
Collector to emitter voltage	V_{CEO}	$I_C = -2mA, I_B = 0$	-50			V
Collector cutoff current	I_{CBO}	$V_{CB} = -50V, I_E = 0$			-0.1	μA
	I_{CEO}	$V_{CE} = -50V, I_B = 0$			-0.5	μA
Emitter cutoff current	I_{EBO}	$V_{EB} = -6V, I_C = 0$			-0.01	mA
Forward current transfer ratio	h_{FE}	$V_{CE} = -10V, I_C = -5mA$	160		460	
Forward current transfer h_{FE} ratio	$h_{FE} (small/large)^{*1}$	$V_{CE} = -10V, I_C = -5mA$	0.5	0.99		
Collector to emitter saturation voltage	$V_{CE(sat)}$	$I_C = -10mA, I_B = -0.3mA$			-0.25	V
Output voltage high level	V_{OH}	$V_{CC} = -5V, V_B = -0.5V, R_L = 1k\Omega$	-4.9			V
Output voltage low level	V_{OL}	$V_{CC} = -5V, V_B = -2.5V, R_L = 1k\Omega$			-0.2	V
Transition frequency	f_T	$V_{CB} = -10V, I_E = 1mA, f = 200MHz$		80		MHz
Input resistance	R_1		-30%	10	+30%	k Ω

*1 Ratio between 2 elements

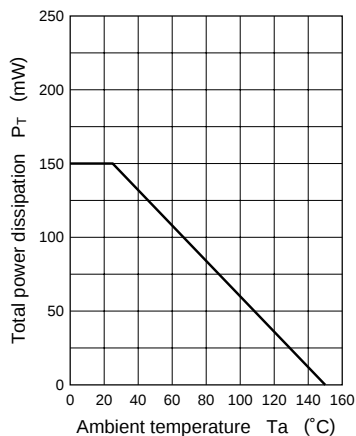
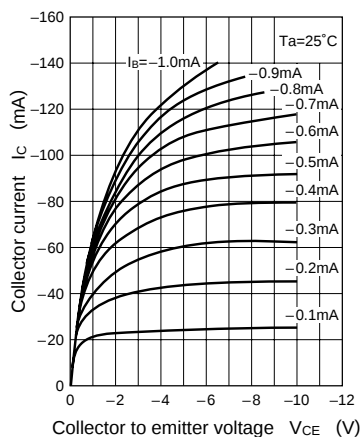
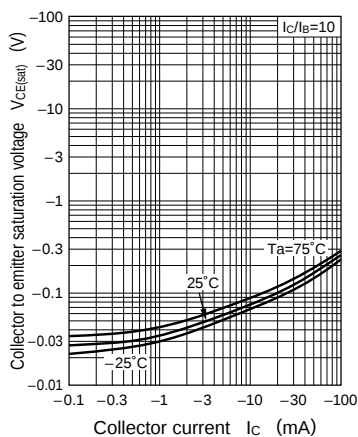
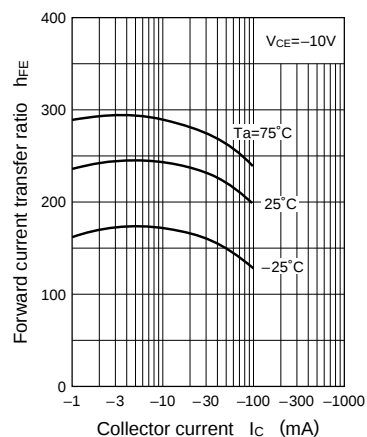
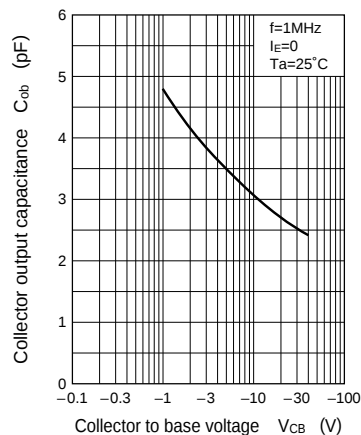
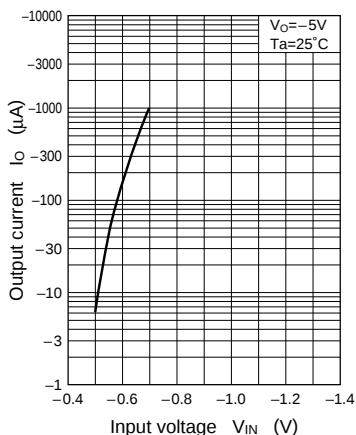
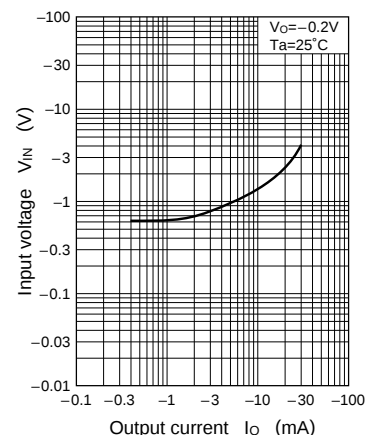


Marking Symbol: 6X

Internal Connection



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

$P_T - T_a$  $I_C - V_{CE}$  $V_{CE(sat)} - I_C$  $h_{FE} - I_C$  $C_{ob} - V_{CB}$  $I_O - V_{IN}$  $V_{IN} - I_O$ 

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