XP04117 (XP4117)

Silicon PNP epitaxial planar transistor

For switching/digital circuits

■ Features

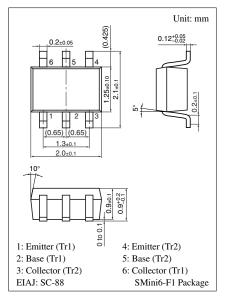
- Two elements incorporated into one package (Transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half

■ Basic Part Number of Element

• UNR1117 (UN1117) × 2 elements

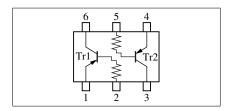
■ Absolute Maximum Ratings $T_a = 25$ °C

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



Marking Symbol: BL

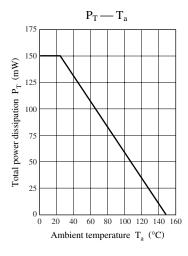
Internal Connection

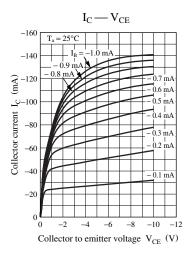


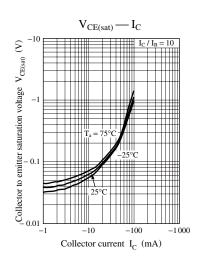
■ Electrical Characteristics $T_a = 25$ °C ± 3 °C

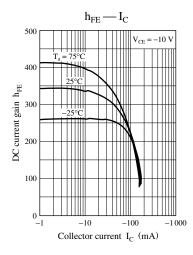
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector to base voltage	V_{CBO}	$I_C = -10 \mu A, I_E = 0$	-50			V
Collector to emitter voltage	V_{CEO}	$I_C = -2 \text{ mA}, I_B = 0$	-50			V
Collector cutoff current	I_{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
	I_{CEO}	$V_{CE} = -50 \text{ V}, I_{B} = 0$			- 0.5	
Emitter cutoff current	I_{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$			- 0.01	mA
DC current gain	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	160		460	_
Collector to emitter saturation voltage	V _{CE(sat)}	$I_C = -10 \text{ mA}, I_B = -0.3 \text{ mA}$			- 0.25	V
High-level output voltage	V_{OH}	$V_{CC} = -5 \text{ V}, V_B = -0.5 \text{ V}, R_L = 1 \text{ k}\Omega$	-4.9			V
Low-level output voltage	V _{OL}	$V_{CC} = -5 \text{ V}, V_B = -2.5 \text{ V}, R_L = 1 \text{ k}\Omega$			- 0.2	V
Input resistance	R_1		-30%	22	+30%	kΩ
Gain bandwidth product	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

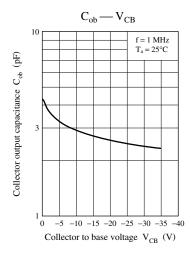
Note) The part number in the parenthesis shows conventional part number.

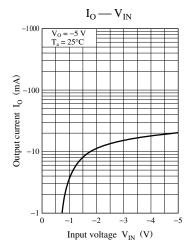


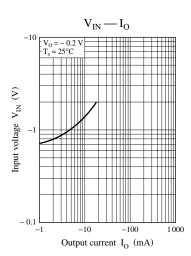












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