XP01110 (XP1110)

Silicon PNP epitaxial planer transistor

For switching/digital circuits

Features

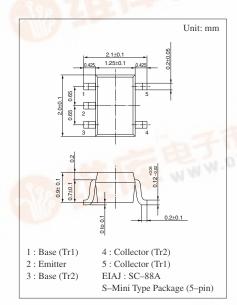
- Two elements incorporated into one package.
 (Emitter-coupled transistors with built-in resistor)
- Reduction of the mounting area and assembly cost by one half.

Basic Part Number of Element

• UNR1110(UN1110) \times 2 elements

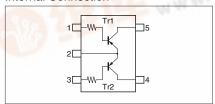
Absolute Maximum Ratings (Ta=25°C)

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			
				CC COM			



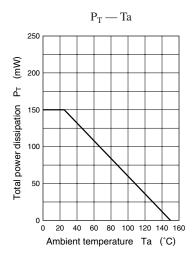
Marking Symbol: AD

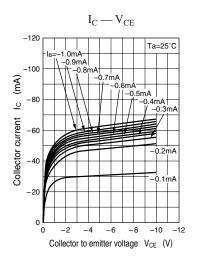
Internal Connection

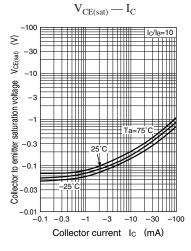


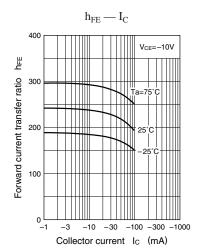
Electrical Characteristics (Ta=25°C)

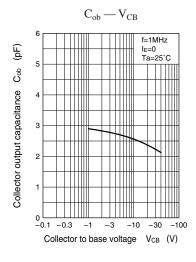
Parameter	Symbol	Conditions	min	typ	max	Unit
Collector to base voltage	V_{CBO}	$I_{\rm C} = -10\mu A, I_{\rm E} = 0$	-50		19	V
Collector to emitter voltage	V _{CEO}	$I_{\rm C} = -2mA, I_{\rm B} = 0$	-50			V
C 11 4 66	I_{CBO}	$V_{CB} = -50V, I_{E} = 0$	7//		- 0.1	μА
Collector cutoff current	I _{CEO}	$V_{CE} = -50V, I_B = 0$			- 0.5	μА
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)}	$I_C = -10 \text{mA}, I_B = -0.3 \text{mA}$			- 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%	47	+30%	kΩ

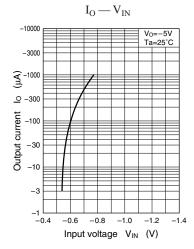


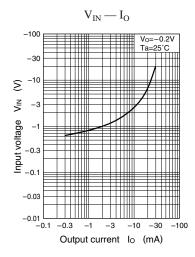












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