UP04111G

Silicon PNP epitaxial planar type

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

• UNR2111 × 2

■ Absolute Maximum Ratings T_a = 25°C

Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	-50	V	
Collector-emitter voltage (Base open)	V _{CEO}	-50	V	
Collector current	I _C	-100	mA	
Total power dissipation	P _T	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C	

Package

Code

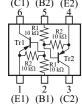
- SSMini6-F2
- Pin Name

1: Emitter (Tr1)	4: Emitter (Tr2)
2: Base (Tr1)	5: Base (Tr2)

3: Collector (Tr2) 6: Collector (Tr1)

Marking Symbol: 9U





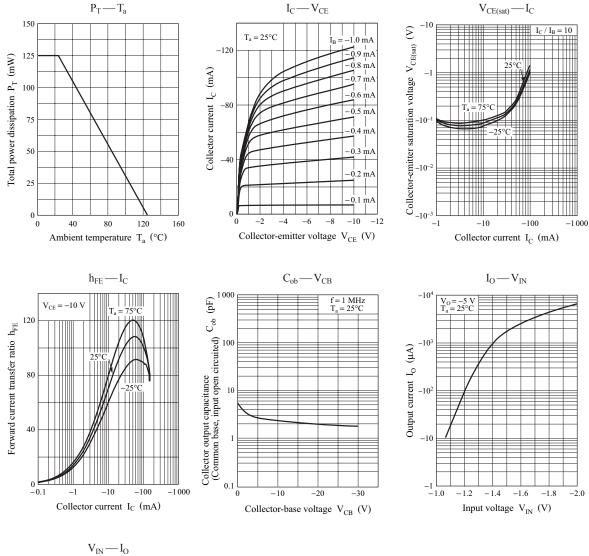
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

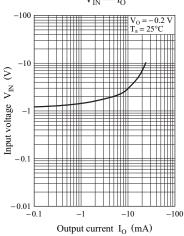
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \ \mu \text{A}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 {\rm mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{\rm CB} = -50$ V, $I_{\rm E} = 0$			-0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -50 \text{ V}, I_{\rm B} = 0$			-0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{\rm EB} = -6 \text{V}, \text{I}_{\rm C} = 0$			-0.5	mA
Forward current transfer ratio	\mathbf{h}_{FE}	$V_{\rm CE} = -10$ V, $I_{\rm C} = -5$ mA	35			
Collector-emitter saturation voltage	V _{CE(sat)}	$I_{\rm C} = -10 \text{ mA}, I_{\rm B} = -0.3 \text{ mA}$			-0.25	V
Output voltage high-level	V _{OH}	$V_{\rm CC} = -5 \text{ V}, V_{\rm B} = -0.5 \text{ V}, R_{\rm L} = 1 \text{ k}\Omega$	-4.9			V
Output voltage low-level	V _{OL}	$V_{\rm CC} = -5 \text{ V}, V_{\rm B} = -2.5 \text{ V}, R_{\rm L} = 1 \text{ k}\Omega$			- 0.2	V
Input resistance	R ₁		-30%	10	+30%	kΩ
Resistance ratio	R_1 / R_2		0.8	1.0	1.2	
Transition frequency	\mathbf{f}_{T}	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

Note) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

UP04111G

Panasonic



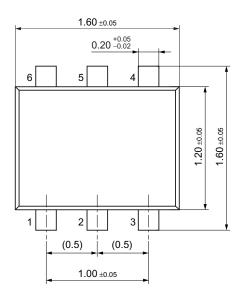


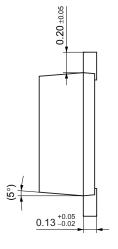
Downloaded from <u>Elcodis.com</u> electronic components distributor

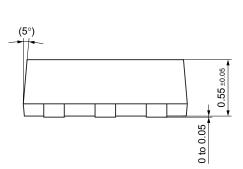
Panasonic

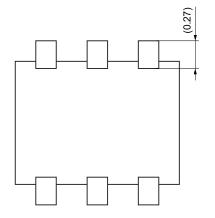
SSMini6-F2

Unit: mm









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