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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

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XP01112

Silicon PNP epitaxial planar type

For 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

• UNR1112 × 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}	150	mW	
Junction temperature	T_{j}	150	°C	
Storage temperature	T _{stg}	-55 to +150	°C	

■ Package

Code

SMini5-G1

Pin Name

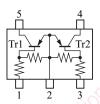
1: Base (Tr1) 4: Collector (Tr2)

2: Emitter 5: Collector (Tr1)

3: Base (Tr2)

■ Marking Symbol: 7K

■ Internal Connection



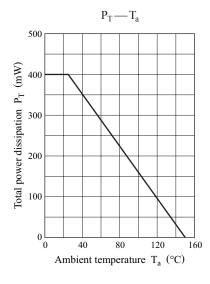
■ Electrical Characteristics $T_a = 25$ °C±3°C

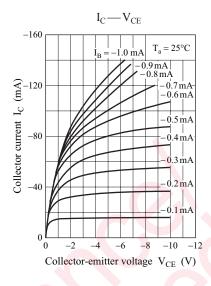
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-50	50	7	V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = -2 \text{ mA}, I_{\rm B} = 0$	-50	10,		V
Collector-base cutoff current (Emitter open)	I_{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$	30 6	2,	-0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = -50 \text{ V}, I_{B} = 0$	Silve		-0.5	μΑ
Emitter-base cutoff current (Collector open)	I_{EBO}	$V_{EB} = -6 \text{ V}, I_C = 0$	1.2		-0.2	mA
Forward current transfer ratio	h_{FE}	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	60			_
h _{FE} ratio *	h _{FE (Small/Large)}	$V_{CE} = -10 \text{ V}, I_{C} = -5 \text{ mA}$	0.5	0.99		_
Collector-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}	$V_{CC} = -5 \text{ V}, V_{B} = -0.5 \text{ V}, R_{L} = 1 \text{ k}\Omega$	-4.9			V
Output voltage low-level	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%	2.2	+30%	kΩ
Resistance ratio	R_1/R_2		0.8	1.0	1.2	_
Transition frequency	f_T	$V_{CB} = -10 \text{ V}, I_E = 1 \text{ mA}, f = 200 \text{ MHz}$		80		MHz

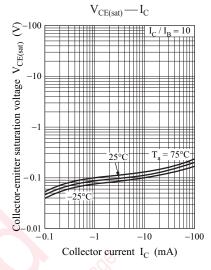
 $Note) \ 1. \ Measuring \ methods \ are \ based \ on \ JAPANESE \ INDUSTRIAL \ STANDARD \ JIS \ C \ 7030 \ measuring \ methods \ for \ transistors.$

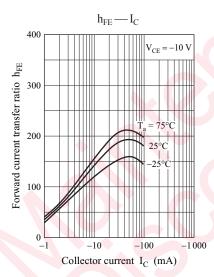
^{2. *:} Ratio between 2 elements

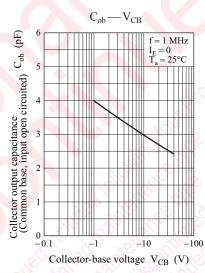
XP01112 Panasonic

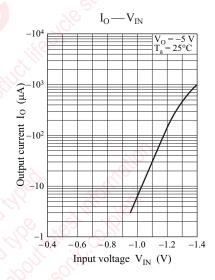


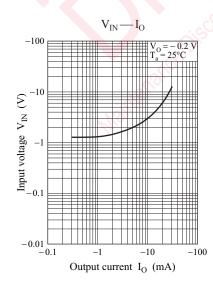








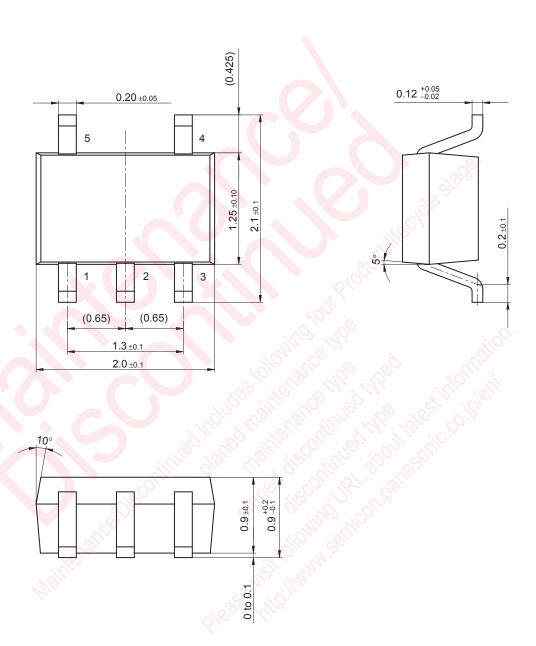




2 SJJ00124BED

Panasonic XP01112

SMini5-G1 Unit: mm



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