imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



UP04213G

Silicon NPN 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

• UNR2210 \times 2

Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter	Symbol	Rating	Unit	7
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: 8S

(B1)

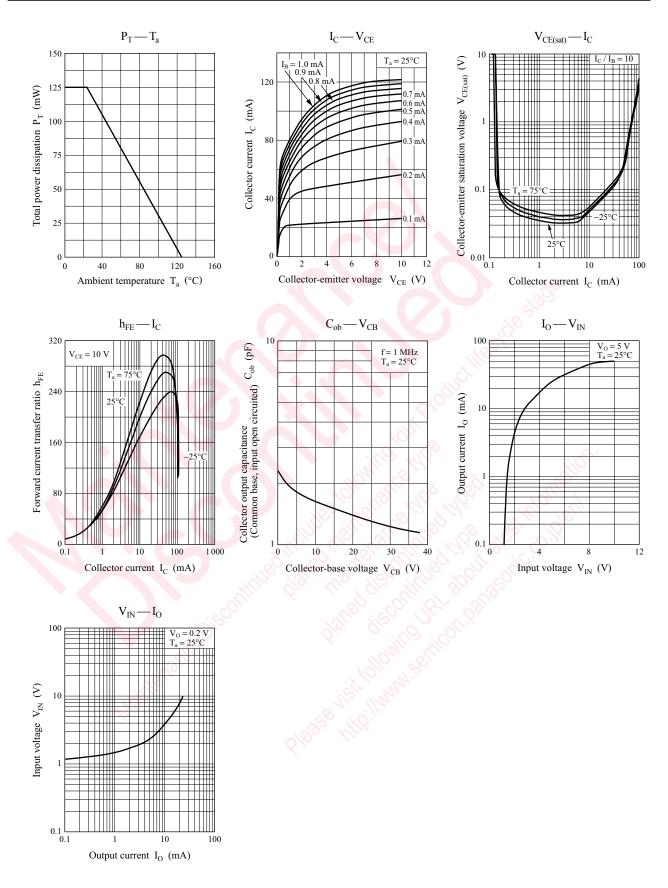
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

Parameter	Symbol	Conditions	 Min 	Тур	Max	Unit
Collector-base voltage (Emitter open)	V _{CBO}	$I_{\rm C} = 10 \mu {\rm A}, I_{\rm E} = 0$	\$ 50	5	8,	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}	$V_{CB} = 50 \text{ V}, I_E = 0$	Son as	2/1	0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 50 \text{ V}, I_B = 0$	S.C.		0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{\rm EB} = 6 \text{ V}, I_{\rm C} = 0$	2.		0.1	mA
Forward current transfer ratio	\mathbf{h}_{FE}	$V_{CE} = 10 \text{ V}, I_C = 5 \text{ mA}$	80			
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}	$V_{\rm CC} = 5 \text{ V}, \text{ V}_{\rm B} = 3.5 \text{ V}, \text{ R}_{\rm L} = 1 \text{ k}\Omega$			0.2	V
Input resistance	R ₁	018,02 Nor	-30%	47	+30%	kΩ
Resistance ratio	R_1/R_2		0.8	1.0	1.2	
Transition frequency	f _T	$V_{CB} = 10 \text{ V}, I_E = -2 \text{ mA}, f = 200 \text{ MHz}$		150		MHz

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

UP04213G

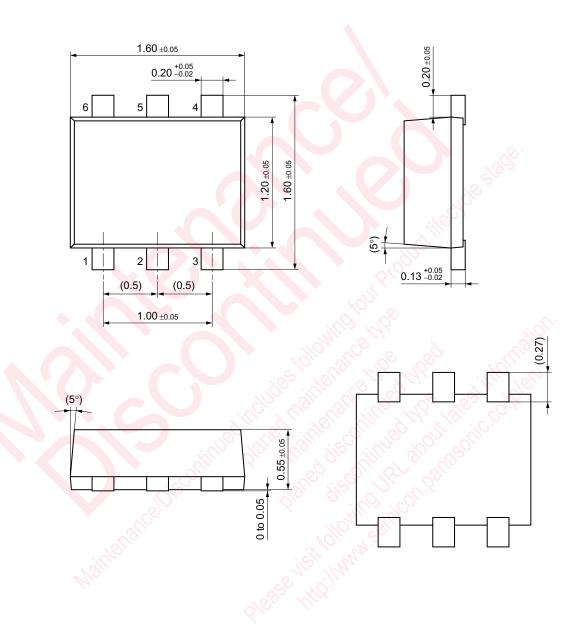
Panasonic



Panasonic

SSMini6-F2

Unit: mm



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