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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UP01214G

Silicon NPN epitaxial planar type

For switching circuits For digital circuits

Features

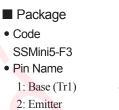
- Two elements incorporated into one package (Emitter-coupled transistors with built-in resistor)
- SSMini type package, reduction of the mounting area and assembly cost

Basic Part Number

• UNR2214 × 2

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

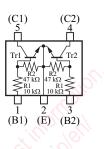
Parameter	Symbol	Rating	Unit	
Collector-base voltage (Emitter open)	V _{CBO}	50	V	
Collector-emitter voltage (Base open)	V _{CEO}	50	V	
Collector current	I _C	100	mA	
Total power dissipation	P _T	125	mW	
Junction temperature	Tj	125	°C	
Storage temperature	T _{stg}	-55 to +125	°C0	



3: Baser (Tr2)

4: Collector (Tr2) 5: Collector (Tr1)

- Marking Symbol: 9H
- Internal Connection



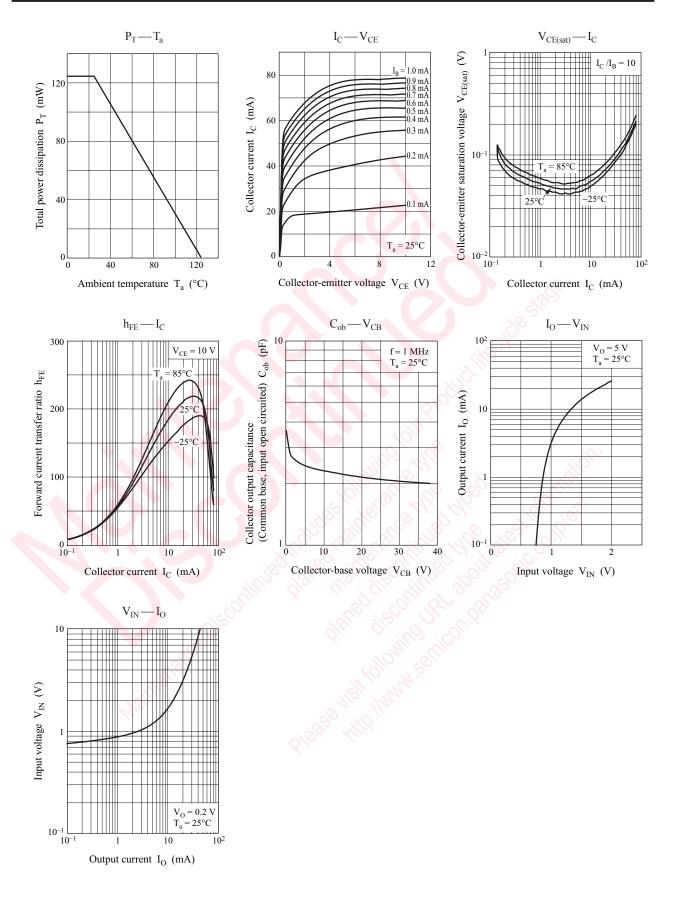
Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

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			V
Collector-emitter voltage (Base open)	V _{CEO}	$I_{\rm C} = 2 \mathrm{mA}, I_{\rm B} = 0$	\$50			V
Collector-base cutoff current (Emitter open)	I _{CBO}	$V_{CB} = 50 \text{ V}, I_E = 0$			0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{CE} = 50 \text{ V}, I_B = 0$			0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{\rm EB} = 6 \text{ V}, I_{\rm C} = 0$			0.2	mA
Forward current transfer ratio	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}	$V_{CC} = 5 V, V_B = 0.5 V, R_L = 1 k\Omega$	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		0.17	0.21	0.25	
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.

UP01214G

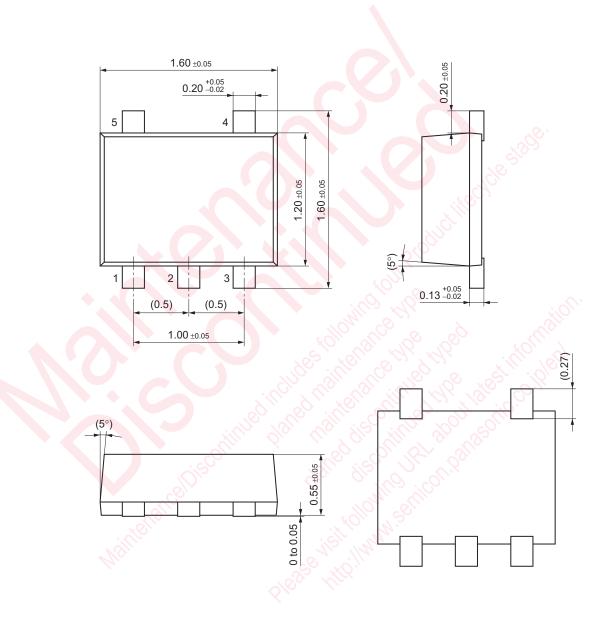
Panasonic



Panasonic

SSMini5-F3

Unit: mm



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