Package

SSMini3-F3 • Pin Name 1: Base

> 2: Emitter 3: Collector

Marking Symbol: CE

Nnternal Connection

 $R_2 \leq$

Code

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UNR91A1G

Silicon PNP epitaxial planar type

For digital circuits

Features

- Optimum for high-density mounting and downsizing of the equipment
- Contribute to low power consumption

Absolute Maximum Ratings $T_a = 25^{\circ}C$ Parameter Symbol Rating Unit -50 V Collector-base voltage (Emitter open) V_{CBO} our datastice may contact our sales V Collector-emitter voltage (Base open) V_{CEO} -50Collector current Total power dissipation Junction temperature Storage temperature

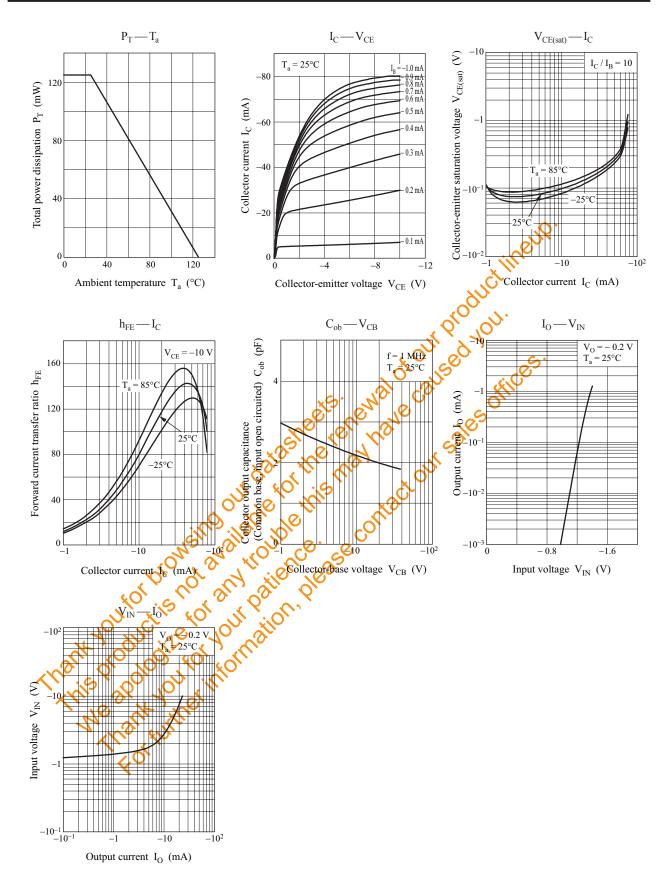
■ Electrical Characteristics T _a =2 ^{to} C±3 ^{cd} tien le ²⁵	con
	ndition

Parameter	Symbo	Conditions	Min	Тур	Max	Unit
Collector-base voltage (Emitter open)	У СВО	$V_{\rm C} = -10 \mu\text{A}, I_{\rm E} = 0$	-50			V
Collector-emitter voltage (Base open)	VCEO	$I_{\rm C} = -2 {\rm mA}, I_{\rm B} = 0$	-50			V
Collector-base cutoffcurrent (Emitter open)	Q _{CBO}	$V_{CB} = -50 \text{ V}, I_E = 0$			- 0.1	μΑ
Collector-emitter cutoff current (Base open)	I _{CEO}	$V_{\rm CE} = -50$ V, $I_{\rm B} = 0$			- 0.5	μΑ
Emitter-base cutoff current (Collector open)	I _{EBO}	$V_{EB} = -6 V, I_C = 0$			- 0.5	mA
Forward current transfervatio	h _{FE}	$V_{CE} = -10 \text{ V}, I_C = -5 \text{ mA}$	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}	$V_{CC} = -5 V, V_B = -0.5 V, R_L = 1 k\Omega$	-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%	10	+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) Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7030 measuring methods for transistors.

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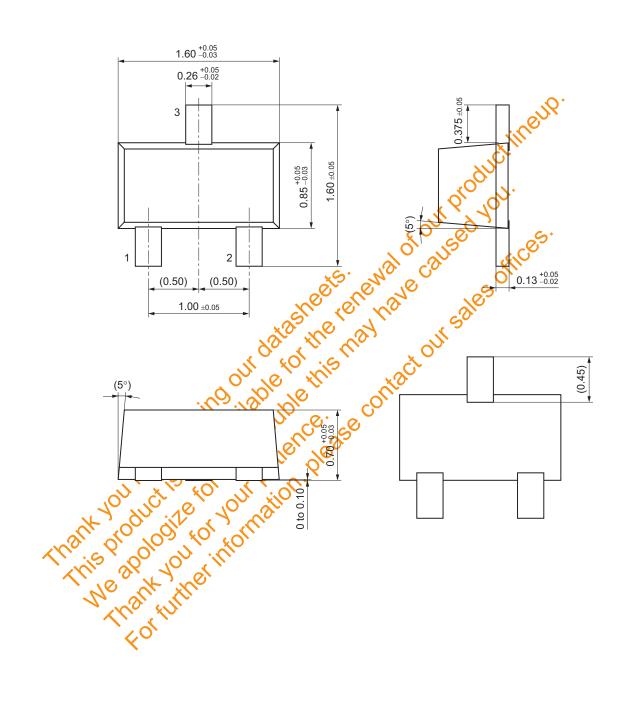
Panasonic



Panasonic

SSMini3-F3

Unit: mm



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